BENGALURU SOLID WASTE MANAGEMENT LIMITED

TENDER DOCUMENT – KW4

(WORKS COSTING MORE THAN Rs. 1000 LAKHS)

Name of Work- Protection of SWM site with boundary wall construction at Kogilu Sy.No.99 and Other such places.

BENGALURU SOLID WASTE MANAGEMENT LIMITED

Office of the Chief Engineer & Chief General Manager (Tech) (BSWML), 1st Floor, UNI Building, Thimmaiah Road, Vasanth Nagar, Bengaluru–560 052.

Phone No: 9844587466

TENDERS FOR THE WORK OF

Sl No	Name of Work	Value of Work (in Lakhs)
1	Protection of SWM site with boundary wall construction at Kogilu Sy.No.99 and Other such places.	839.30

TENDER REFERENCE	No. CE&CGM (Tech)/BSWML/TEND/09/2023-24 Date:22.02.2024
LAST DATE FOR SALE OF TENDER DOCUMENT	up to 04.03.2024 on or before 4.00 PM
PRE-BID MEETING WILL BE HELD ON	28.02.2024 at 3.00 PM
LAST DATE AND TIME FOR RECEIPT OF TENDERS	04.03.2024 on or before 4.00 PM
TIME AND DATE OF OPENING OF COVER ONE OF TENDERS	05.03.2024 at 4.30 PM
PLACE OF PRE-BID MEETING WILL BE HELD	Office of the Chief Engineer & Chief General Manager (Tech),BSWML, 1st Floor, UNI Building, Thimmaiah Road, Bengaluru-560052.
TIME AND DATE OF OPENING OF COVER TWO OF TENDERS	Will be intimated to the Qualified Tenderers
PLACE OF OPENING OF COVER TWO OF TENDERS AND ADDRESS FOR COMMUNICATION:	Office of the Chief Engineer & Chief General Manager (Tech), BSWML, 1st Floor,UNI Building, Thimmaiah Road, Bengaluru-560052.
	Off: Phone Mob: +91 9844587466

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BENGALURU SOLID WASTE MANAGEMENT LIMITED

Office of the Chief Engineer & Chief General Manager (Tech), BSWML, 1st Floor, UNI Building, Thimmaiah Road, Vasanth Nagar, Bengaluru – 560 052

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No:CE&CGM(Tech)/BSWML/TEND/09/2023-24 Date:22.02.2024

INVITATION FOR BIDS (IFT)

Short Term Bid Notification

(Only through GOK KPP Portal Only)

1. The BBMP in its approved budget of 2023-24, has approved to transfer the grants to BSWML in respect of Solid Waste Management works to BSWML. Accordingly, in the Board meeting of BSWML the action plan for works to be taken up for the said grants has been approved.

2. In this regard The Chief Engineer & Chief General Manager (Tech), Bengaluru Solid Waste Management Limited on behalf of the Managing Director, BSWML, Bengaluru invites bids from eligible bidders for the works detailed in the table below. The Bidders may submit bids for works given in the table below through KPP portal of the Government of Karnataka (viz. https://KPP.karnataka.gov.in) The Bidders are advised to note the minimum qualification criteria specified in Clause-3 as per KW-4 of the instructions to bidders to qualify for award of the contract.

3. Bid documents may be downloaded from the KPP portal of the Government of Karnataka.

4. Other details can be seen in the tender documents.

5. GST will be paid separately.

Sl No.	Name of the work	Approx. Amount put to Bid (Rs. in lakhs) Excluding GST	EMD (Amount in Rs.)	Cost of Bid Document	Stipulated completion period (including monsoon period)
1	Protection of SWM site with boundary wall construction at Kogilu Sy.No.99 and Other such places.	839.80	Rs.1,00,000/- through e-payment under of the following i.e., online / RTGS / NEFT / OTC and the balance Rs.11,60,000/- by Bank Guarantee/FDR issued by Nationalized/ Scheduled Bank	As per KPP portal	6 Months

1. Pre bid meeting will be held 28.02.2024 at 15:00 hours in office of the Chief Engineer & Chief General Manager (Tech), BSWML, UNI Building, Thimmaiah Road,Vasanth Nagar, Bengaluru - 560052.

2. Technical Documents along with necessary information/documents must be uploaded to the KPP portal https://KPPP.karnataka.gov.in as per tender document on or before 16:00 hours of 04.03.2024. The Technical bid will be opened through kpp-portal only on 05.03.2024 after 16:30 hours at the stipulated venue. through kpp-portal in the presence of the bidders or their authorized representatives who wish to attend the opening process. If the office happens to be closed on the date of opening of the bids as specified, the bids will be opened on the next working day at the same time and venue through KPP portal.

3. The Employer shall not be liable for any delays due to system failure beyond its control. Even though the system will attempt to notify the bidders of any tender updates, the Employer shall not be liable for any information not received by the bidders. It is the

bidders responsibility to verify the KPP portal for the latest information related to the bids, E-mail address of the Helpdesk is hphelpdesk.blr@intarvo.com. KPP portal help desk telephone numbers are: 080-22371090/22373788. The bidders are required to ensure browser capability of the computer well in advance to the last date and time for receipt of the bids. The employer shall not be responsible for non-accessibility of KPP portal due to internet connectivity issues and technical glitches.

4. Any corrigendum/addendum will be published in the KPP portal only.

Sd/-
Chief Engineer & Chief General Manager (Tech)
BSWML

Copy Submitted to the:

1. Hon'ble Chairman, BSWML & ACS, UDD for kind information.
2. Hon'ble Managing Director BSWML/Chief Commissioner,BBMP for kind information.
3. Chief Executive Officer BSWML /Special Commissioner, SWM, BBMP for kind information.
4. Chief Operational Officer BSWML, for kind information.
5. Chief Financial officer BSWML /CAO, BBMP for kind information.
6. Company Secretary, BSWML for kind necessary action.
7. Office Copy

Sd/-
Chief Engineer & Chief General Manager (Tech)
BSWML

SECTION 2: INSTRUCTIONS TO TENDERERS (ITT)

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A. General

1. Scope of Tender

The Chief Engineer & Chief General Manager (Tech), BSWML, on behalf of the Managing Director, BSWML (Referred to as Employer in these documents) invites ITEM RATE tenders following Two Cover tender procedure, from eligible Tenderers, for the works of "Protection of SWM site with boundary wall construction at Kogilu Sy.No.99 and Other such places." (as defined in these documents and referred to as "the works") detailed in the Table given in the Invitation for Tenders (IFT). The Tenderers may submit tenders for any or all of the works detailed in the table given in IFT.

2. Eligible Tenderers

Tenderers shall not be under a declaration of ineligibility for corrupt and fraudulent practices issued by theGovernment of Karnataka/BBMP. A Bidder shall be any individual, Firm, Agency registered BBMP, BDA, NH, PWD, CPWD or other central/state agencies with qualification as set forth in clause 3 below.

Tenders from Joint ventures are not acceptable.

3. Qualification of the Tenderer:

3.1 All Tenderers shall provide the requested information accurately and in sufficient detail in Section 3: Qualification information.

3.2 To qualify for award of this contract, each Tenderer in its name should have in the last five financial years (i.e. **2018-19 to 2022-23**)

(a) Achieved in at least two financial years a minimum financial turnover (in all classes of Civil works and Solid Waste Management works) of **Rs.1680 lakhs**

(b) Mandating satisfactorily completion as a prime contractor, at least one similar nature of work in Civil works to as extent of 50% of the cost of the work **(Rs.400 lakhs)**

(c) executed in any one financial year, the following minimum quantities of work:[1](usually 80% of the peak annual rate of construction) executed in any one year, the following minimum quantities of work: 7 - Cement concrete (including RCC and PSC) …….. cum - earthwork in both excavation and embankment (combined quantities)……cum - …… ……cum - …… ……cum (usually 80% of the peak annual rate of construction)*

SLNo	Item	Unit	Qty
1	Excavation	Cum	8000.00
2	Cement Concrete	Cum	2300.00
3	TMT Steel Reinforcement	Tons	15
4	Size stone masonry	Cum	50
5	Centering /Shuttering	Sq.m	600
6	Covering Slab	Rmt	140

(d) The Tenderer or his identified sub-contractor should possess required valid electrical license for executing building electrification works and should have executed similar electrical works totaling Rs. 2.8 Lakhs (usually not less than 50% of the electrical works)* in any one year;8 (

(e) The Tenderer or his identified sub-contractor should possess valid license for executing water supply/sanitary engineering works and should have executed similar water supply/sanitary engineering works totaling Rs 4.5 Lakhs(usually not less than 50% of the water supply/sanitary engineering works)* in any one year;9 3.3 Each Tenderer should further demonstrate: (a) Availability by owning the following key and critical equipment for this work: 1 Deleted

3.3. Each Tenderer should further demonstrate:

Availability by owning at least 50% of the required / specified key and critical equipment for this work and the remaining 50% can be deployed on lease / hire basis for all works provided the relevant documents (commitment agreements etc.) for availability for this work are furnished.

Sl No	Descriptions	Nos	Own/Lease
1	Tippers	4	50% Own/ 50% lease
2	Excavators like JCB/Hitachi	2	50% Own/ 50% lease
3	Water tanker	2	50% Own/ 50% lease

(b)Liquid assets and /or availability of credit facilities of not less than **Rs. 400.20 Lakhs** (Credit lines/ letter of credit/certificates from banks for meeting the fund requirement etc.

3.6 Tenderers who meet the above specified minimum qualifying criteria, will only be qualified, if their available tender capacity is more than the total tender value. The available tender capacity will be calculated as under: Assessed available tender capacity = (A*N*1.5 - B) where A = Maximum value of civil engineering works executed in any one year during the last five years (updated to ———— 11 price level) taking into account the completed as well as works in progress. N = Number of years prescribed for completion of the works for which tenders are invited. B = Value, at ———— 12price level, of existing commitments and on-going works to be completed during the next.....years (period of completion of the works for which Tenders are invited)* Note: The statements showing the value of existing commitments and on-going works as well as the stipulated period of completion remaining for each of the works listed should be countersigned by the Employer in charge, not below the rank of an Executive Engineer or equivalent. 3.2 Even though the Tenderers meet the above criteria, they are subject to be disqualified if they have: - made misleading or false representations in the forms, statements and attachments submitted in proof of the qualification requirements; and/or - record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc.; and/or - participated in the previous Tender for the same work and had quoted unreasonably high tender prices and could not furnish rational justification.

3.4 To qualify for a package of contracts made up of this and other contracts for which tenders are invited in this IFT, the Tenderer must demonstrate having experience and resources to meet the aggregate of the qualifying criteria for the individual contracts.

3.5 Sub-contractors‟ experience and resources shall not be taken into account in determining the Tenderer‟s compliance with the qualifying criteria except to the extent stated in 3.2 (d) and (e) above.

3.6 Tenderers who meet the above specified minimum qualifying criteria, will only be qualified, if their available tender capacity is more than the total tender value. The available tender capacity will be calculated as under:

Assessed available tender capacity = (A*N*1.5 - B)

Where

A = Maximum Value of Civil Engineering Works executed in any One Year during the last Five years **(updated to 2022-23 Price Level)** taking into account the Completed as well as Works in Progress.

N = Number of years prescribed for Completion of the Works for which Tenders are Invited i.e. 12 Months.

B = Value, at **2022-2023 Price Level on 10% Weightage per annum**, of Existing Commitments and on Going Works to be completed during the next 12 months including Monsoon Season.

Note: The statements showing the value of existing commitments and on-going works as well as the stipulated period of completion remaining for each of the works listed should be countersigned by the Employer in charge, not below the rank of an Executive Engineer or equivalent.

3.2 Even though the Tenderers meet the above criteria, they are subject to be disqualified if they have:

- made misleading or false representations in the forms, statements and attachments submitted in proof of the qualification requirements; and/or
- record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc.; and/or

- Participated in the previous Tender for the same work and had quoted unreasonably high tender prices and could not furnish rational justification.

4. One Tender per Tenderer

Each tenderer shall submit only one tender for one package. A tenderer who submits or participates in more than one Tender (other than as a sub-contractor or in cases of alternatives that have been permitted or requested) will cause all the proposals with the Tenderer's participation to be disqualified.

5. Cost of Tendering:

The tenderer shall bear all costs associated with the preparation and submission of his tender, and the Employer will in no case be responsible and liable for those costs.

6. Site visit:

The Tenderer at his own responsibility and risk is encouraged to visit and examine the Site of Works and its surroundings and obtain all information that may be necessary for preparing the Tender and entering into a contract for construction of the Works. The cost of visiting the Site shall be at the Tenderer's own expense.

B. Tender documents

7. Content of Tender documents

The set of tender documents shall have all the Sections given in Page **3**
Both the sets should be completed and returned with the tender.

8. Clarification of Tender Documents

A prospective tenderer requiring any clarification of the tender documents may notify the Employer in writing or by cable (hereinafter "cable" includes telex and facsimile) at the Employer's address indicated in the invitation to tender. The Employer will respond to any request for clarification which he receives earlier than 15 days prior to thedeadline for submission of tenders. Copies of the Employer's response will be forwarded to all purchasers of the tender documents, including a description of the enquiry but without identifying its source.

Pre-tender meeting:

The tenderer or his authorized representative is invited to attend a pre-tender meeting which will take place at Office of the Office of the Chief Engineer & Chief General Manager (Tech), BSWML, 1st Floor, UNI Building, Thimmaiah Road, Bengaluru-560052 **on 28.02.2024 at 3.00 PM.**
The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
The tenderer is requested to submit any questions in writing or by cable to reach the Employer not later than **28.02.2024 at 4.00PM.**

Minutes of the meeting, including the text of the questions raised (without identifying the source of enquiry) and the responses given will be transmitted without delay to all purchasers of the tender documents. Any modification of thetender documents listed in Sub-Clause 7.1 which may become necessary as a result of the pre-tender meeting shallbe made by the Employer exclusively through the issue of an Addendum pursuant to Clause 9 and not through the minutes of the pre-tender meeting.
Non-attendance at the pre-tender meeting will not be a cause for disqualification of a tenderer.

9. Amendment of Tender documents

Before the deadline for submission of tenders, the Employer may modify the tender documents by issuing addenda.

Any addendum thus issued shall be part of the tender documents and shall be communicated in writing or by cable to all the purchasers of the tender documents.
To give prospective Tenderers reasonable time in which to take an addendum into account in preparing their tenders, the Employer shall extend as necessary the deadline for submission of tenders, in accordance with Sub-Clause 16.2 below

C. Preparation of Tenders

10. Documents comprising the Tender

The tender submitted by the Tenderer shall be in two covers and shall contain the documents as follows:

First Cover:
(a) Earnest Money Deposit;
(b) Qualification Information as per formats given in Section 3;

Second Cover:
(a) The Tender (in the format indicated in Section 4)
(b) Priced Bill of Quantities (Section 9);
and any other materials required to be completed and submitted by Tenderers in accordance with these instructions.
The documents listed under Sections 3, 4, 6 and 9 shall be filled in without exception.
Tenderers submitting tenders together with other contracts stated in the IFT to form a package will so indicate in the tender together with any discounts offered for the award of more than one contract.

11. Tender prices

The contract shall be for the whole works as described in Sub-Clause 1.1, based on the priced Bill of Quantities submitted by the Tenderer.
The Tenderer shall fill in rates and prices and line-item total (both in figures and words) for all items of the Works described in the Bill of Quantities along with total tender price (both in figures and words). **Items for which no rate or price is entered by the Tenderer will not be paid for by the Employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities**. Corrections, if any, shall be made by crossing out, initialing, dating and rewriting.
All duties, taxes, and other levies payable by the contractor under the contract, or for any other cause, shall be included in the rates, prices and total Tender Price submitted by the Tenderer.
The rates and prices quoted by the Tenderer shall be subject to adjustment during the performance of the Contract in accordance with the provisions of Clause of the Conditions of Contract

12. Tender validity

Tenders shall remain valid for a period not less than **One Hundred and Eighty days (180)** after the deadline date for tender submission specified in Clause 16. A tender valid for a shorter period shall be rejected by the Employer as non-responsive.

In exceptional circumstances, prior to expiry of the original time limit, the Employer may request that the Tenderers may extend the period of validity for a specified additional period. The request and the Tenderers' responses shall be made in writing or by cable. A Tenderer may refuse the request without forfeiting his earnest money deposit. A Tenderer agreeing to the request will not be required or permitted to modify his tender, but will be required to extend the validity of his earnest money deposit for a period of the extension, and in compliance with Clause 13 in all respects.

13. Earnest money deposit
The Tenderer shall furnish, as part of his tender, Earnest Money Deposit (EMD) in the amount as mentioned in IFT for this particular Work. Further, out of the total EMD Amount only Rs. 1.00 Lakh (Rupees One Lakh only) shall be paid in the KPP Portal using any of the following modes and the Balance Amount shall be in the form of Bank Guarantee from any Bank.

- Credit Card.

- Direct Debit.
- National Electronic Fund Transfer (NEFT).
- Over the Counter (OTC).

NEFT Payment Procedure:

If a Tenderer chooses to make Payment of EMD / Tender Processing FEE using Reserve Bank of India's (RBI) National Electronic Fund Transfer (NEFT) System, the Tenderer will need to log into kppp System, access the Tender for which Bid is being created and then select the NEFT Option under the Payment Section and print the Challan shown in that Section. The Printed Challan will have the Unique Bid Reference Number, Account Details of Government of Karnataka and the Amount to be remitted. The Tenderer shall submit the Printed Challan to its Bank Branch (NEFT enabled) and request foran Account – to – Account Transfer, wherein the money will get transferred from the Tenderer‟s Bank Account to GOK‟s Bank Account. The Tenderer shall ensure that NEFT Transfer Instructions are executed and the Funds are wired to the Government of Karnataka's Principal Account before the Last Date for Bid Submission and preferably 24 hours before the Last Date for Bid Submission. If the Tenderer‟s Bank transfers / wires the money after the Last Date for Bid Submission, the Tenderer‟s Bid will be liable for rejection. Upon executing the Transfer, the Tenderer's Bank will provide a Reference Number generated by NEFT Software as Confirmation of Transfer, which has to be input by the Tenderer in the Payment Section of its Bid as Payment Confirmation before the Bid is submitted i.e. as a pre requisite for Bid Submission. The Account Number from which the Funds were transferred shall be input in the KPPP System as part of its Bid also.

OTC Payment Procedure:

If a Tenderer chooses to make Payment of EMD / Tender Processing FEEs Over The Counter (OTC) in any of the designated Axis Bank Branches listed in the KPPP Website (www.kppp.karnataka.gov.in), the Tenderer will need to log intoKPPP System, access the Tender for which Bid is being created and then select the OTC Option under the PaymentSection and print the Challan shown in that Section. The Printed Challan will have the Unique Bid Reference Number andthe Amount to be remitted along with the Challan. The Tenderer can choose to make the Payment either in the form of Cash or in the form of Demand Draft. Cheque Payments will not be accepted. The Tenderer is requested to specifically inform the Bank Officer to input the Unique Bid Reference Number printed in the Challan in the Banking Software. Upon successful Receipt of the Payment, the Bank will provide a 16 Digit Reference Number acknowledging the Receipt of Payment. This 16 Digit Reference Number has to be input by the Tenderer in the Payment Section of its Bid as Payment Confirmation before the Bid is submitted i.e. as a pre requisite for Bid Submission.

The Tenderer shall furnish, as part of his tender, earnest money deposit (EMD) at the following rates
a) upto Rs.20 Lakhs - 2.5%
b) Rs.20 Lakhs and above upto Rs. 1 crore – 2% subject to a minimum of Rs. 50,000/-
c) Rs.1 crore and above upto Rs.10 crores – 1% subject to a minimum of Rs. 2,00,000/-
d) Rs.10 crores and above – 1% subject to a minimum of Rs.15,00,000/-.

e) Fixed Deposit Receipt (FDR) subject to the following condition
- Maturity date of FDRs issued by the Bank should be beyond the date expected date of finalization of the tender.

Earnest money deposit will have to be in any one of the forms as specified in the Tender document and as per circular PWD:15:ITC:2008/2009 Dated:02-12-2010 (Minimum of Rs.1,00,000/- through e-payment under of the following i.e., online / RTGS / NEFT / OTC and the balance by bank guarantee/FDR issued by Nationalized/ Scheduled Bank and shall have to be valid for 90 days beyond the validity of the tender.

As per Circular: PWD:15:ITC:2008/2009 Dated:02-12-2010 the Tenderer shall submit the ORIGINAL BG/FDR for Part EMD on or before the Opening of Technical Bid, if failed to submit, the bidwill be rejected and the initial amount deposited through KPPP will be forfeited and further their names will be proposed for Black Listing if resorted repeatedly.
Instruments having fixed validity issued as earnest money deposit for the tender shall be valid for 90 days **beyond** the validity of the tender.

Any tender not accompanied by an acceptable earnest money deposit and not secured as indicated in Sub-Clauses 13.1 and 13.2 above shall be rejected by the Employer as non-responsive.
The earnest money deposit of unsuccessful Tenderers will be returned within 30 days of the end of the tender validity period specified in Sub-Clause 12.1.
The earnest money deposit of the successful Tenderer will be discharged when the Tenderer has signed the Agreement and furnished the required Performance Security.

The earnest money deposit may be forfeited:

(a) if the Tenderer withdraws the Tender after tender opening during the period of tender validity;
(b) if the Tenderer does not accept the correction of the Tender Price, pursuant to Clause 24; or
(c) in the case of a successful Tenderer, if the Tenderer fails within the specified time limit to
(i) sign the Agreement; or
(ii) Furnish the required Security deposit

14. Format and signing of Tender

Tenderer shall submit the Bid electronically before the submission date and time published in kpp portal.

D. Submission of Tenders

15. Sealing and marking of tenders

Tenderer shall submit the Tender document electronically before the submission date and time published. The document for submission shall be uploaded in PDF format and submitted in the order mentioned below.

1. Content sheet with name of folder / file, No of pages in each folder / file and size of the folder/file.

FIRST COVER /FOLDER (TECHNICAL PART)

2. As per Section 3 - Qualification information
a. Qualification information summary sheets
b. Affidavit as per the format attached in qualification information.
c. Brief description of tenderer with the details of contact person for communication with BSWML
d. Attested copy of Registration certificate of the contractor
e. EMD as specified in the Table of I TT in the document.
f. Power of attorney for signing the tender as per the format attached in qualification information.
g. Work performed & quantity executed as per Table with supporting certificates from client for the claims mentioned in tables of qualification information.
h. Tables Qualification information with supporting certificate from client &calculation sheet for available tender capacity.
i. Availability of machinery as per Table of qualification information.
j. Experience & qualification of key persons as per Table of qualification information.
k. Financial statement for past five F.Y, contains balance sheet, profit& loss, statement on cash on hand, liquid assets etc from Charted Accountant.
l. Line of credit and details of tenderers bank with reference as per format attached in qualification information.
n. Litigation history as per Table. Of qualification information.
o. Method adopted for construction program, bar chart, quality assurance program as per clause 1.13 of qualification information
p. Undertaking for the tender is valid for 180 days as per clause 1.14 of qualification information.

SECOND COVER/FOLDER (FINANCIAL PART)

a. Form of tender as per section 4 (I) of tender document.
b. Priced Bill of Quantity.
c. Any other materials required to be completed and submitted by Tenderers in accordance with ITT.

Deleted
Deleted

16. Deadline for submission of the Tenders

Tenders must be received by the Employer at the address specified above no later than **4.00PM hours on 04.03.2024**
In the event of the specified date for the submission of tenders being declared a holiday for the Employer, the tenders will be received up to the appointed time on the next working day.
The Employer may extend the deadline for submission of tenders by issuing an amendment in accordance with Clause 9, in which case all rights and obligations of the Employer and the Tenderers previously subject to the original deadline will then be subject to the new deadline.

17. Late Tenders

Any Tender received by the Employer after the deadline prescribed in Clause 16 will be returned unopened to the Tenderer.

18. Modification and Withdrawal of Tenders

Tenderers may modify contents of First or Second Covers separately for each Cover or withdraw their Tenders by giving notice in writing before the deadline prescribed in Clause 16.
Each Tenderer's modification separately for each Cover or withdrawal notice shall be prepared, sealed, marked, and delivered in accordance with Clause 14 & 15, with the outer and inner envelopes additionally marked "**MODIFICATION FOR FIRST/SECOND COVER**" or "**WITHDRAWAL**", as appropriate.
No Tender may be modified after the deadline for submission of Tenders.
Withdrawal or modification of a Tender between the deadline for submission of Tenders and the expiration of the original period of Tender validity specified in Clause 12.1 above or as extended pursuant to Clause 12.2 may result in the forfeiture of the earnest money deposit pursuant to Clause 13.

18.1 Tenderers may only offer discounts to, or otherwise modify the prices of their Tenders by submitting Tender modifications in accordance with this clause, or included in the original Tender submission.

E. Tender opening and evaluation

19. Opening of First Cover of all Tenders and evaluation to determine qualified Tenderers:

The Employer will open the First Covers of all the Tenders received (except those received late or withdrawn), including modifications for First Cover made pursuant to Clause 18, in the presence of the Tenderers or their representatives who choose to attend at 05.03.2024 at 4.30 PM on the date and the place specified in Clause 16. In the event of the specified date of Tender opening being declared a holiday for the Employer, the Tenders will be opened at the appointed time and location on the next working day.

Deleted
The Tenderers names, the presence or absence of earnest money deposit (amount, format and validity), the submission of qualification information and such other information as the Employer may consider appropriate will be announced by the Employer at the opening.
The Employer shall prepare minutes of the Tender opening, including the information disclosed to those present in accordance with Sub-Clause 19.3.
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The Employer will evaluate and determine whether each tender
(a) meets the eligibility criteria defined in ITT Clause 2;
(b) is accompanied by the required earnest money deposit as per stipulations in ITT Clause and
(c) Meets the minimum qualification criteria stipulated in ITT Clause 3. The Employer will draw out a list of qualified Tenderers.[2]

20. Opening of Second Cover of qualified Tenderers and evaluation:

The Employer will inform all the Qualified Tenderers the time, date and venue fixed for the opening of the Second Cover containing the priced Tenders. The Employer will open the Second Covers of Qualified Tenderers at the

appointed time and date(as indicated in the kppp portal) in the presence of the Tenders or their representatives who choose to attend. In the event of the specified date of Second Cover opening being declared a holiday for the Employer, the Second Covers will be opened at the appointed time and location on the next working day.
Deleted
Deleted
The Employer shall prepare minutes of the Second Cover Tender opening.

21. Process to be confidential

Information relating to the examination, clarification, evaluation, and comparison of Tenders and recommendations for the award of a contract shall not be disclosed to Tenderers or any other persons not officially concerned with such process until the award to the successful Tenderer has been announced. Any effort by a Tenderer to influence the Employer's processing of Tenders or award decisions may result in the rejection of his Tender.

22 Clarification of Tenders

To assist in the examination, evaluation, and comparison of Tenders, the Employer may, at his discretion, ask any Tenderer for clarification of his Tender, including breakdowns of unit rates. The request for clarification and the response shall be in writing or by cable, but no change in the price or substance of the Tender shall be sought, offered, or permitted except as required to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the Tenders in accordance with Clause 24.
Subject to sub-clause 22.1, no Tenderer shall contact the Employer on any matter relating to its Tender from the time of the Tender opening to the time the contract is awarded. If the Tenderer wishes to bring additional information to the notice of the Employer, it should do so in writing.
Any effort by the Tenderer to influence the Employer in the Employer’s Tender evaluation, Tender comparison or contract award decisions may result in the rejection of the Tenderers‟ Tender.

23. Examination of Tenders and determination of responsiveness

Prior to the detailed evaluation of Tenders, the Employer will determine whether each Tender;
(a) has been properly signed; and;
(b) is substantially responsive to the requirements of the Tender documents.
A substantially responsive Tender is one which conforms to all the terms, conditions, and specifications of the Tender documents, without material deviation or reservation. A material deviation or reservation is one
(a) which affects in any substantial way the scope, quality, or performance of the Works;
(b) which limits in any substantial way, inconsistent with the Tender documents, the Employer's rights or the Tenderer's obligations under the Contract; or
(c) whose rectification would affect unfairly the competitive position of other Tenderers presenting substantially responsive Tenders.
If a Tender is not substantially responsive, it will be rejected by the Employer, and may not subsequently be made responsive by correction or withdrawal of the nonconforming deviation or reservation.

24. Correction of errors

The Tenderer may modify the tender only before the last date for submission of the tender, as indicated on the kppp portal.

25. Evaluation and comparison of Tenders

The Employer will evaluate and compare only the Tenders determined to be substantially responsive in accordance with Clause 23.
Deleted (Since Bids submitted online only)
The Employer reserves the right to accept or reject any variation, deviation, or alternative offer. Variations,deviations, and alternative offers and other factors which are in excess of the requirements of the Tender documents or otherwise result in unsolicited benefits for the Employer shall not be taken into account in Tender evaluation.

The estimated effect of the price adjustment conditions under Clause 41 of the Conditions of Contract, during the implementation of the Contract, will not be taken into account in tender Evaluation

If the tender of the successful tenderer is seriously unbalanced in relation to the Employer's estimate of the cost of the work to be performed under the contract, the Employer may require the Tenderer to produce detailed price analyses for any or all items of the Bill of Quantities, to demonstrate the internal consistency of those prices with theconstruction methods and schedule proposed. After evaluation of the price analyses, the Employer may require that the amount of the performance security set forth in Clause 29 be increased at the expense of the successful Tenderer to a level sufficient to protect the Employer against financial loss in the event of default of the successful under the contract.

F. Award of Contract

26. Award criteria

Subject to Clause 27, the Employer will award the Contract to the Tenderer whose Tender has been determined to be substantially responsive to the Tender documents and who has offered the lowest evaluated Tender Price, provided that such Tenderer has been determined to be

(a) eligible in accordance with the provisions of Clause 2, and

(b) qualified in accordance with the provisions of Clause 3.

27. Employer's right to accept any Tender and to reject any or all Tenders

Not with standing Clause 26, the Employer reserves the right to accept or reject any Tender, and to cancel the Tender process and reject all Tenders, at any time prior to the award of Contract, without thereby incurring any liability to the affected Tenderer or Tenderers or any obligation to inform the affected Tenderer or Tenderers of the grounds forthe Employer's action.

28. Notification of award and signing of Agreement

The Tenderer whose Tender has been accepted will be notified of the award by the Employer prior to expiration of the Tender validity period by cable, telex, e-mail or facsimile confirmed by registered letter. This letter (hereinafter and in the *Conditions of Contract* called the "Letter of Acceptance") will state the sum that the Employer will pay the Contractor in consideration of the execution, completion, and maintenance of the Works by the Contractor as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price").

The notification of award will constitute the formation of the Contract, subject only to the furnishing of Security deposit in accordance with the provisions of Clause 29.

The Agreement will incorporate all agreements between the Employer and the successful Tenderer. It will be kept ready for signature of the successful Tenderer in the office of Employer within 30 days following the notification of award along with the Letter of Acceptance. Within 20 days of receipt, the successful Tenderer will sign the Agreement and deliver it to the Employer.

Upon the furnishing by the successful Tenderer of the Performance Security, the Employer will promptly notify the other Tenderers that their Tenders have been unsuccessful.

29. Security deposit

Within 20 days of receipt of the Letter of Acceptance, the successful Tenderer shall deliver to the Employer a Security deposit in any of the forms given below for an amount equivalent to 5% of the Contract price plus additional security for unbalanced tenders in accordance with Clause 25.5 of ITT and Clause 44 of the Conditions of Contract for all works.:

- Cash or
- Banker's cheque/Demand draft/Pay Order in favour of Managing Director, BSWML payable at Bangalore or
- A bank guarantee in the form given in Section 10; or
- Specified Small Savings Instruments pledged to Managing Director, BSWML payable at Bangalore

If the security deposit is provided by the successful Tenderer in the form of a Bank Guarantee, it shall be issued either by a Nationalized/Scheduled bank.

The security deposit if furnished in cash or demand draft can, if requested, be converted to interest bearing securities at the cost of the successful Tenderer/ contractor.
Failure of the successful Tenderer to comply with the requirements of Sub-Clause 29.1 shall constitute sufficient grounds for cancellation of the award and forfeiture of the Earnest money deposit.

30 Advance Payment and Security:

The Employer will provide an advance payment on the contract price as stipulated in the Conditions of Contract, subject to the maximum amount as stated in the Contract Data.

31. Corrupt or Fraudulent practices

The BSWML requires that the Tenderers/Suppliers/Contractors, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, BSWML :

(a) will reject a proposal for award if it determines that the Tenderer recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;

(b) will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a BSWML contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a BSWML contract.

Furthermore, Tenderers shall be aware of the provision stated in sub-clause 50.2 of the Conditions of Contract.

SECTION 3: QUALIFICATION INFORMATION

The information to be filled in by the Tenderer hereunder will be used for purposes of computing Tender capacity as provided for in Clause 3 of the Instructions to Tenderers. This information will not be incorporated in the Contract.

Constitution or legal status of Tenderer [Attach copy]

Place of Registration _____ (Attach Copy)

Principal place of business: _____

Total value of civil engineering construction works executed and payments received in the last five years (in Rs. Lakhs) Attach Certificate from Chartered Accountant

2018- 19 ……
2019 - 20 ……
2020 - 21 ……
2021 - 22……
2022 - 23…….

Work performed as Prime Contractor (in the same name) on works of similar nature over during the five years specified in 1.2 above.

Project Name	Name of Employer	Descrip-tion of Work	Contract Number	Value of Contract Rs. Lakhs	Date of issue of work order	Specified period of completion	Actual date of Actual date of	Remarks explaining reasons for delay in completion of work
1	2	3	4	5	6	7	8	9

Quantities of work executed as prime contractor (in the same name) during the last five years specified in 1.2 above:

Year	Name of Work	Name of Employer	Quantity of work performed (cum)[3]			Remarks (Indicate contract reference)
			Cement Concrete	Masonry	Earthworks	
2018-19						
2019-20						
2020-21						
2021-22						
2022-23						

Information on works for which Tenders have been submitted and works which are yet to be completed as on the date of this Tender.

(A) <u>Existing commitments and on-going works:</u>

Description of Work	Place & State	Contract No. & Date	Name And Address of Employer	Value of Contract (Rs. lakhs)	Stipulated period of completion	Value of works remaining to be completed (Rs. lakhs) Attach Certificates from Engineers –in-Charge	Anticipated date of completion
1	2	3	4	5	6	7	8

(B) Works for which Tenders already submitted:

Description of Work	Place & State	Name and Address of Employer	Estimated value of works (Rs. lakhs)	Stipulated period of completion	Date when decision is expected	Remarks if any
1	2	3	4	5	6	7

1.6. The following items of equipment are considered essential for successfully carrying out the works. The Tenderer should furnish all the information listed below.

Item of Equipment	**Requirement**		
As mentioned above			

Reports on the financial standing of the tenderer, such as profit and loss statements and auditor's reports for the last five years;
Qualification and experience of the key technical and management personnel in permanent employment with the tenderer and those that are proposed to be deployed on this contract, if awarded.

Position	Names	Qualification	Year of Experience (General)	Nos required
Project Co - ordinator		B.E Civil Engineering	5 Yrs – in Civil Engineering – Construction projects	1
Quantity Surveyor & QA QC		B.E in Civil Engg	10 Yrs – in Civil Engg – Construction projects	2
Site Engineer		Diploma in Civil Engg	5 Yrs – Diploma in Civil Engineering – Construction projects	3

1.9. Name, address, and telephone, telex, and fax numbers of the Tenderers' bankers who may provide references if contacted by the Employer. Evidence of access to financial resources to meet the qualification requirement specified in ITT Clause3.3 (b): Cash in hand, Letter of Credit etc. List them below and attach certificate from the Banker in the suggested format as under:

ON BANKS LETTER HEAD

……..

FORMAT OF BANKER'S CERTIFICATE/ LINE OF CREDIT LETTER

(TO BE ISSUED IN THE LETTER HEAD OF THE BANK BRANCH)

Reference Number (Sl. No.)
Place:
Date :

To:
(Name of Address of the Beneficiary)

This is to certified that, Mr./ Mrs. …… (Name of the Customer) having his/ their registered/ Administrative office at ……. Is a customer of our bank and is/ are engaged in …….. (Name of activity). If the said customer is allotted/ awarded with ……. (Brief details of works), we may extend the credit facilities up to Rs. ……. Lakhs to meet his/ their working capital requirement towards the execution of the said work order as per the loan policy of the Bank.
This certificate is valid up to 3 months from the date of issue, i.e. up to dd/mm/yyyy.

Yours faithfully,

Branch Manager.

Proposals for subcontracting components of works amounting to more than 20% of the contract price .

Item of Work	Value of Sub-Contract	Identified Sub-Contractor (Name and address)	Experience of similar work (Attach certificates from the respective Employers.)
1	2	3	4

Information on litigations in which the Tenderer is involved:

Other Party (ies)	Employer	Details of dispute	Amount involved	Remarks showing present status

The proposed methodology and program of construction, backed with equipment planning and deployment, duly supported with broad calculations and quality control procedures proposed to be adopted, justifying their capability of execution and completion of the work as per technical specifications within the stipulated period of completion as per milestones.

SECTION 4: FORMS OF TENDER, LETTER OF ACEPTANCE, NOTICE TO PROCEED WITH THE WORK AND AGREEMENT FORM

Form of Tender

"Protection of SWM site with boundary wall construction at Kogilu Sy.No.99 and Other such places.**"**

To,

Chief Engineer & Chief General
Manager (Tech), Office of the
BSWML, 1st Floor,UNI
Building, Thimmaiah Road,
Vasanth Nagar, Bangalore-52.

GENTLEMEN,

We offer to execute the Works described above in accordance with the Conditions of Contract accompanying this Tender for the Contract Price of …….. *[in figures]* *(*.....) *[in letters]*.[4]

This Tender and your written acceptance of it shall constitute a binding contract between us. We understand that you are not bound to accept the lowest or any Tender you receive.

The advance payment required is Rs…….

We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India namely "Prevention of Corruption Act 1988".

hereby confirm that this Tender complies with the Tender validity and Earnest money deposit required by the Tender documents.

We attach herewith our current income-tax clearance certificate.

Yours faithfully,

Authorized Signature:
Name & Title of Signatory: _____

Name of Tenderer _____
Address: ----------

[4] To be filled in by the Tenderer, together with his particulars and date of submission at the bottom of the Form of Tender

Letter of Acceptance

(letterhead paper of the Employer) …….[date]

To:

……

……[name and address of the Contractor]

Dear Sirs,

This is to notify you that your Tender dated for execution of the "Protection of SWM site with boundary wall construction at Kogilu Sy.No.99 and Other such places." for the Contract Price of Rupees

……..……..

…… (……) [amount in words and figures], as corrected and modified in accordance with the Instructions to Tenderers is hereby accepted by our Agency.

You are hereby requested to furnish Security deposit plus additional security for unbalanced tenders in terms of Clause 25.5 of ITT, in the form detailed in Clause 29.1 of ITT for an amount of Rs.....within 20 days of the receipt of this letter of acceptance valid up to 30 days from the date of expiry of Defects Liability Period i.e. up to..... and sign the contract, failing which action as stated in Para 29.4 of ITT will be taken.

Yours faithfully,

Authorized Signature

Name and Title of Signatory

Name of Agency

Issue of Notice to proceed with the work

(Letterhead of the Employer)

…….(date)

To

……

……

…… (name and address of the Contractor)

Dear Sirs:

Pursuant to your furnishing the requisite security deposit as stipulated in ITT Clause 29.1 and signing of the contract agreement for the construction of "Protection of SWM site with boundary wall construction at Kogilu Sy.No.99 and Other such places." A Tender Price of Rs , you are hereby instructed to proceed with the execution of the said works

in accordance with the contract documents.

Yours faithfully,

(Signature, name and title of signatory

authorized to sign on behalf of Employer)

Agreement Form

Agreement

This agreement, made the …….day of ……20....., between……
…….[name and address of Employer]
(hereinafter called "the Employer") of the one part and …….
……...[name and address of contractor] (hereinafter called "the Contractor") of the other part.

Whereas the Employer is desirous that the Contractor execute ……...
……
……[name and identification number of Contract] (hereinafter called "the Works") and the Employer has accepted the Tender by the Contractor for the execution and completion of such Works and the remedying of any defects therein at a contract price of Rupees'.....

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement, words and expression shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to, and they shall be deemed to form and be read and construed as part of this Agreement.
2. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all aspects with the provisions of the Contract.
3. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying the defects wherein the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
4. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz:
   - i) Letter of Acceptance;
   - ii) Notice to proceed with the works;
   - iii) Contractor"s Tender;
   - iv) Contract Data;
   - v) Conditions of contract (including Special Conditions of Contract);
   - vi) Specifications;
   - vii) Drawings;
   - viii) Bill of Quantities; and
   - ix) Any other document listed in the Contract Data as forming part of the contract.

In witness whereof the parties thereto have caused this Agreement to be executed the day and year first before written.

The Common Seal of ……
……
was hereunto affixed in the presence of:
Signed, Sealed and Delivered by the said
……
……

in the presence of:
Binding Signature of Employer

……
Binding Signature of Contractor

…….

SECTION 5: CONDITIONS OF CONTRACT

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Conditions of Contract

A. General

1. Definitions

Terms which are defined in the Contract Data are not also defined in the Conditions of Contract but keep their defined meanings. Bold letters are used to identify defined terms.
Bill of Quantities means the priced and completed Bill of Quantities forming part of the Tender.
Compensation events are those defined in Clause 38 hereunder.
The **Completion Date** is the date of completion of the Works as certified by the Employer in accordance with Sub Clause 46.1.
The **Contract** is the contract between the Employer and the Contractor to execute, complete and maintain the Works. It consists of the documents listed in Clause 2.2 below.
The **Contract Data** defines the documents and other information which comprise the Contract.
The **Contractor** is a person or corporate body whose Tender to carry out the Works has been accepted by the Employer.
The **Contractor's Tender** is the completed Tender document submitted by the Contractor to the Employer.
The **Contract price** is the price stated in the Letter of Acceptance and thereafter as adjusted in accordance with the provisions of the Contract.
Days are calendar days; **months** are calendar months.
A **Defect** is any part of the Works not completed in accordance with the Contract.
The **Defects liability period** is the period named in the Contract Data and calculated from the Completion Date which is 12 months for this project.
The **Employer** is the party who will employ the Contractor to carry out the Works.
Equipment is the Contractor's machinery and vehicles brought temporarily to the Site to construct the Works.
The **Initial Contract price** is the Contract Price listed in the Employer's Letter of Acceptance.
The **Intended Completion Date** is the date on which it is intended that the Contractor shall complete the Works. The Intended Completion Date is specified in the Contract Data. The Intended Completion Date may be revised onlyby the Employer by issuing an extension of time.
Maintenance Period is the period named in the Contract Data, during which Contractor shall maintain the works completed by him for a period of 12 months effective from last day of Defect Liability Period
Materials are all supplies, including consumables, used by the contractor for incorporation in the Works.
Plant is any integral part of the Works which is to have a mechanical, electrical, electronic or chemical or biological function.
The **Site** is the area defined as such in the Contract Data.
Specification means the Specification of the Works included in the Contract and any modification or addition made or approved by the Employer.
The **Start Date** is given in the Contract Data. It is the date when the Contractor shall commence execution of the works. It does not necessarily coincide with any of the Site Possession Dates.
A **Subcontractor** is a person or corporate body who has a Contract with the Contractor to carry out a part of the work in the Contract which includes work on the Site.
A **Variation** is an instruction given by the Employer which varies the Works.
The **Works** are what the Contract requires the Contractor to construct, install, and turn over to the Employer, as defined in the Contract Data.

2. Interpretation

In interpreting these Conditions of Contract, singular also means plural, male also means female or neuter, and the other way around. Headings have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Employer will provide instructions clarifying queries about the Conditions of Contract.
The documents forming the Contract shall be interpreted in the following order of priority:

(1) Agreement
(2) Letter of Acceptance, notice to proceed with the works
(3) Contractor‟s Tender
(4) Contract Data

(5) Conditions of Contract
(6) Specifications
(7) Drawings
(8) Bill of quantities and
(9) any other document listed in the Contract Data as forming part of the Contract.

3. Law governing contract

The law governing the Contract is the Laws of India supplanted by the Karnataka Local Acts.

4. Employer's decisions

Except where otherwise specifically stated, the Employer will decide contractual matters between the Employer and the Contractor.

5. Delegation

The Employer may delegate any of his duties and responsibilities to other people after notifying the Contractor and may cancel any delegation after notifying the Contractor.

6. Communications

Communications between parties which are referred to in the conditions are effective only when in writing. A notice shall be effective only when it is delivered (in terms of Indian Contract Act).

7. Subcontracting (Deleted)

Deleted.

8. Other Contractors

The Contractor shall cooperate and share the Site with other contractors, public authorities, utilities, and the Employer.

9. Personnel

The Contractor shall employ the technical personnel (of number and qualifications) as may be stipulated by GOK from time to time during the execution of the work. The technical staff so employed shall be available at site as may be stipulated by the Employer.
If the Employer asks the Contractor to remove a person who is a member of the Contractor's staff or his work force stating the reasons, the Contractor shall ensure that the person leaves the Site within seven days and has no further connection with the work in the Contract.

10. Employer's and Contractor's risks

The Employer carries the risks which this Contract states are Employer's risks, and the Contractor carries the risks which this Contract states are Contractor's risks.

11. Employer's risks

The Employer is responsible for the excepted risks which are:
(a) rebellion, riot commotion or disorder unless solely restricted to employees of the Contractor or his Sub-Contractors arising from the conduct of the Works; or
(b) a cause due solely to the design of the Works, other than the Contractor's design; or
(c) any operation of the forces of nature (in so far as it occurs on the Site) which an experienced contractor:
    (i) could not have reasonably foreseen; or
    (ii) could reasonably have foreseen, but against which he could not reasonably have taken at least one of the following measures;

(A) prevent loss or damage to physical property from occurring by taking appropriate measures or
(B) insure against such loss or damage

12. Contractor's risks

All risks of loss of or damage to physical property and of personal injury and death which arise during and in consequence of the performance of the Contract other than the excepted risks are the responsibility of the Contractor.

13. Insurance:

The Contractor shall prior to commencing the works, effect and thereafter maintain insurances , in the joint names of the Employer and the Contractor, (cover from the first working day after the Start Date to the end of Defects Liability Period), in the amounts stated in the Contract Data :

(a) for loss of or damage to the Works, Plants and Materials and the Contractor's equipment;
(b) for liability of both Parties for loss, damage, death and injury to third parties or their property arising out of the Contractor's performance of the Contract including the Contractor's liability for damage to the Employer's property other than the Works and
(c) for liability of both Parties and of any Employer's representative for death and injury to the Contractor's personnel except to the extent that liability arises from the negligence of the Employer, any Employer's representative or their Employees.

Policies and certificates for insurance shall be delivered by the Contractor to the Employer for his approval before the Start Date. All such insurance shall provide for compensation to be payable to rectify the loss or damage incurred. All payments received from insurers relating to loss or damage shall be held jointly by the Parties and usedfor the repair of the loss or damage or as compensation for loss or damage that is not to be repaired.
If the Contractor fails to effect or keep in force any of the insurances referred to in the previous sub-clauses or fails to provide satisfactory evidence, policies or receipts, the Employer may without prejudice to any other right or remedy, effect insurance for the cover relevant to such default and pay the premiums due and recover the same as a deduction from any other monies due to the Contractor. If no payments is due, the payment of the premiums shall bea debt due.
Alterations to the terms of an insurance shall not be made without the approval of the Employer.
Both Parties shall comply with any conditions of the insurance policies.

14. Site Investigation Reports:

The Contractor, in preparing the tender, shall rely on any site investigation reports referred to in the Contract data, supplemented by any information available to the Tenderer.

15. Queries about the Contract Data

The Employer will clarify queries on the Contract Data.

16. Contractor to construct the Works

The Contractor shall construct the Works in accordance with the Specification and Drawings.

17. The Works to be completed by the Intended Completion Date

The Contractor may commence execution of the Works on the Start Date and shall carry out the Works in accordance with the program submitted by the Contractor, as updated with the approval of the Employer, and complete them by the Intended Completion Date.

18. Approval by the Employer:

The Contractor shall submit Specification and drawings showing the proposed Temporary Works to the Employer, who is to approve them if they comply with the Specifications and Drawings.
The Contractor shall be responsible for the design of Temporary Works
The Employer's approval shall not alter the Contractor's responsibility for design of the Temporary Works.

The Contractor shall obtain approval of third parties to the design of third parties to the design of the temporary Works where required.
All Drawings prepared by the Contractor for the execution of the temporary or permanent Works, are subject to prior approval by the Employer before their use.

19. Safety

The Contractor shall be responsible for the safety of all activities on the Site.

20. Discoveries

20..1 Anything of historical or other interest or of significant value unexpectedly discovered on the Site is the property of the Employer. The Contractor is to notify the Employer of such discoveries and carry out the Employer's instructions for dealing with them.

21. Possession of the Site

The Employer shall give possession of all parts of the Site to the Contractor. If possession of a part is not given by the date stated in the Contract Data the Employer is deemed to have delayed the start of the relevant activities and this will be Compensation Event.

22. Access to the Site

The Contractor shall allow the Employer and any person authorized by the Employer access to the Site, to any place where work in connection with the Contract is being carried out or is intended to be carried out and to any place where materials or plant are being manufactured / fabricated / assembled for the works.

23. Instructions

The Contractor shall carry out all instructions of the Employer which comply with the applicable laws where the Site is located.

24. Procedure for resolution of Disputes:

If the Contractor is not satisfied with the decision taken by the Employer, the dispute shall be referred by either party to Arbitration within 30 days of the notification of the Employer's decision.
If neither party refers the dispute to Arbitration within the above 30 days, the Employer's decision will be final and binding.
The Arbitration shall be conducted in accordance with the arbitration procedure stated in the Special Conditions of Contract.

B. Time Control

25. Program

Within the time stated in the Contract Data the Contractor shall submit to the Employer for approval a Program showing the general methods, arrangements, order, and timing for all the activities in the Works.
The Employer's approval of the Program shall not alter the Contractor's obligations. The Contractor may revise the Program and submit it to the Employer again at any time. A revised Program is to show the effect of Variations and Compensation Events.

26. Extension of the Intended Completion Date

The Employer shall extend the Intended Completion Date if a Compensation Event occurs or a Variation is issued which makes it impossible for Completion to be achieved by the Intended Completion Date.
The Employer shall decide whether and by how much to extend the Intended Completion Date within 21 days of the Contractor asking the Employer for a decision upon the effect of a Compensation Event or Variation and submitting full supporting information.

27. Delays ordered by the Employer

The Employer may instruct the Contractor to delay the start or progress of any activity within the Works.

28. Management meetings

The Employer may require the Contractor to attend a management meeting. The business of a management meeting shall be to review the progress achieved and the plans for remaining work.
The responsibility of the parties for actions to be taken is to be decided by the Employer either at the management meeting or after the management meeting and stated in writing to be distributed to all who attended the meeting.

C. Quality Control

29. Identifying defects

The Employer shall check the Contractor's work and notify the Contractor of any Defects that are found. Such checking shall not affect the Contractor's responsibilities. The Employer may instruct the Contractor to search for a Defect and to uncover and test any work that the Employer considers may have a Defect

30. Tests

If the Employer instructs the Contractor to carry out a test not specified in the Specification to check whether any work has a Defect and the test shows that it does, the Contractor shall pay for the test and any samples. If there is no Defect the test shall be a Compensation Event.

31. Correction of defects

The Employer shall give notice to the Contractor of any Defects before the end of the Defects Liability Period, which begins at Completion and is defined in the Contract Data. The Defects Liability Period shall be extended for as long as Defects remain to be corrected.
Every time notice of a Defect is given, the Contractor shall correct the notified Defect within the length of time specified by the Employer's notice.

32. Uncorrected defects

If the Contractor has not corrected a Defect within the time specified in the Employer's notice, the Employer will assess the cost of having the Defect corrected, and the Contractor will pay this amount.

D. Cost Control

33. Bill of Quantities (BOQ)

The BOQ shall contain items for the construction, installation, testing, and commissioning work to be done by the Contractor.
The BOQ is used to calculate the Contract Price. The Contractor is paid for the quantity of the work done at the rate in the BOQ for each item

34. Variations

The Employer shall have power to order the Contractor to do any or all of the following as considered necessary or advisable during the progress of the work by him

(a) Increase or decrease of any item of work included in the Bill of Quantities (BOQ);
(b) Omit any item of work;
(c) Change the character or quality or kind of any item of work;
(d) Change the levels, lines, positions and dimensions of any part of the work;
(e) Execute additional items of work of any kind necessary for the completion of the works; and
(f) Change in any specified sequence, methods or timing of construction of any part of the work.

The Contractor shall be bound to carry out the work in accordance with any instructions in this connection, which may be given to him in writing by the Employer and such alteration shall not vitiate or invalidate the contract.

Variations shall not be made by the Contractor without an order in writing by the Employer, provided that no order in writing shall be required for increase or decrease in the quantity of an item appearing in the BOQ so long as the work executed conforms to the approved drawings.
The Contractor shall promptly request in writing to the Employer to confirm verbal orders and the officer issuing oral instructions shall confirm it in writing within 30 days, failing which the work shall be carried out as though there is no variation. In case variation is approved it shall be accompanied by BOQ, failing which the contractor shall be responsible for deviation if any. Further, approval of Govt. / BSWML has to be obtained for the variation exceeding 5%.

35. Payments for Variations

Payment for increase in the quantities of an item in the BOQ up to 25% of that provided in the Bill of Quantities shall be made at the rates quoted by the Contractor.
For quantities in excess of 125% of the tendered quantity of an item as given in the BOQ, the Contractor shall be paid at the rate entered in or derived from in the Schedule of Rates (applicable for the area of the work and current atthe time of award of contract) plus or minus the overall percentage of the original tendered rates over the current Schedule of Rates prevalent at the time of award of contract.
If there is no rate for the additional, substituted or altered item of the work in the BOQ, efforts would be made to derive the rates from those given in the BOQ or the Schedule of Rates (applicable for the area of the work and current at the time of award of contract) and if found feasible the payment would be made at the derived rate for the item plus or minus the overall percentage of the original tendered rates over the current Schedule of Rates prevalent at the time of award of contract
If the rates for additional, substituted or altered item of work cannot be determined either as at 35.1 or 35.2 or 35.3 above, the Contractor shall be requested to submit his quotation for the items supported by analysis of the rate or rates claimed, within 7 days.
If the Contractor's quotation is determined unreasonable, the Employer may order the Variation and make a change to the Contract Price which shall be based on Employer's own forecast of the effects of the Variation on the Contractor's costs.
If the Employer decides that the urgency of varying the work would prevent a quotation being given and considered without delaying the work, no quotation shall be given and the Variation shall be treated as a Compensation Event.
Under no circumstances the Contractor shall suspend the work on the plea of non-settlement of rates for items falling under this Clause.

36. Submission of bills for payment

The Contractor shall submit to the Employer monthly bills of the value of the work completed less the cumulative amount paid previously.
The Employer shall check the Contractor's bill and determine the value of the work executed which shall comprise of (i) value of the quantities of the items in the BOQ completed and (ii) valuation of Variations and Compensation Events.
The Employer may exclude any item paid in a previous bill or reduce the proportion of any item previously paid in the light of later information.

37. Payments

Payments shall be adjusted for deductions for advance payments other than recoveries in terms of contract and taxes, at source, as applicable under the law. The Employer shall pay the Contractor the within 60 days of submission of bill. The contractor shall be liable to pay liquidated damages for shortfall in progress. For progress beyond theagreed programmer payment is subject to availability of the grants.
Items of the Works for which no rate or price has been entered in will not be paid for by the Employer and shall be deemed covered by other rates and prices in the Contract.

38. Compensation events

The following are Compensation events unless they are caused by the Contractor:

(a) The Employer does not give access to a part of the Site by the Site Possession Date stated in the Contract Data.
(b) The Employer orders a delay or does not issue drawings, specifications or instructions required for execution of works on time.

(c) The Employer instructs the Contractor to uncover or to carry out additional tests upon work which is then found to have no Defects.
(d) The Employer gives an instruction for dealing with an unforeseen condition, caused by the Employer, or additional work required for safety or other reasons.
(e) The effect on the Contractor of any of the Employer's Risks.
(f) The Employer unreasonably delays issuing a Certificate of Completion.
(g) Other Compensation Events listed in the Contract Data or mentioned in the Contract.

If a Compensation Event would cause additional cost or would prevent the work being completed before the Intended Completion Date, the Contract Price shall be increased and/or the Intended Completion Date is extended. The Employer shall decide whether and by how much the Contract Price shall be increased and whether and by how much the Intended Completion Date shall be extended.
As soon as information demonstrating the effect of each Compensation event upon the Contractor's forecast cost has been provided by the Contractor, it is to be assessed by the Employer and the Contract Price shall be adjusted accordingly. If the Contractor's forecast is deemed unreasonable, the Employer shall adjust the Contract Price based on Employer's own forecast. The Employer will assume that the Contractor will react competently and promptly to the event.
The Contractor shall not be entitled to compensation to the extent that the Employer's interests are adversely affected by the Contractor not having given early warning or not having cooperated with the Employer.

39. Tax

The rates quoted by the Contractor shall be deemed to be exclusive of GST and inclusive of other taxes that the Contractor will have to pay for the performance of this Contract. The Employer will perform such duties in regard to the deduction of such taxes at source as per applicable law.

40. Price Adjustment:
(As per the G.O. No.FD 3 PCL 2008, Bangalore, Dated: 21.11.2008)
If the period of execution is more than 6 months but less than or equal to 12 months for work costing more than Rs.50 lakhs, star rates in respect of specified materials (cement, steel and bitumen) only shall be payable to the contractor based on the all India average wholesale price index for the said materials. The star rates adjustment shall be as per the increase or decrease in the index as applied to the said materials between the last date for receiving bidsand the date of execution as per the approved programmer of works submitted by the contractor at the time of execution of agreement which shall mandatorily be a part of the agreement.

41. Liquidated damages

The Contractor shall pay liquidated damages to the Employer at the rate per day stated in the Contract Data for each day that the Completion Date is later than the Intended Completion Date (for the whole of the works or the milestone as stated in the Contract Data). The total amount of liquidated damages shall not exceed the amount defined in the Contract Data. The Employer may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages does not affect the Contractor's liabilities.
If the Intended Completion Date is extended after liquidated damages have been paid, the Employer shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment of bill.

42. Advance Payments: Refer Section 6: Contract Data

43. Securities:

The Security deposit (including additional security for unbalanced tenders) shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount and form and type of instrument acceptable to the Employer. The Security deposit shall be valid until a date 30 days from the date of

expiry of Defects Liability Period and the additional security for unbalanced tenders shall be valid until a date 30 days from the date of issue of the certificate of completion.

44. Cost of Repairs:

Loss or damage to the Works or Materials to be incorporated in the Works between the Start Date and the end of the Defects Correction periods shall be remedied by the Contractor at the Contractor's cost if the loss or damage arises from the Contractor's acts or omissions.

E. Finishing the Contract

45. Completion

The Contractor shall request the Employer to issue a Certificate of Completion of the Works and the Employer will do so upon deciding that the Work is completed.

46. Taking over

The Employer shall take over the Site and the Works within seven days of issuing a certificate of Completion.

47. Final account

The Contractor shall supply to the Employer a detailed account of the total amount that the Contractor considers payable under the Contract before the end of the Defects Liability Period. The Employer shall issue a Defect Liability Certificate and certify any final payment that is due to the Contractor within 90 days of receiving the Contractor's account if it is correct and complete. If it is not, the Employer shall issue within 90 days a schedule that states the scope of the corrections or additions that are necessary. If the Final Account is still unsatisfactory after it has been resubmitted, the Employer shall decide on the amount payable to the Contractor and make payment within 60 days of receiving the Contractor's revised account.

48. As built drawings and /or Operating and Maintenance Manuals

If "as built"(*Completion drawings*) Drawings and/or operating and maintenance manuals are required, the Contractor shall supply them by the dates stated in the Contract Data.
If the Contractor does not supply the Drawings by the dates stated in the Contract Data, or they do not receive the Employer's approval, the Employer shall withhold the amount stated in the Contract Data from payments due to the Contractor.

49. Termination

The Employer may terminate the Contract if the other party causes a fundamental breach of the Contract.
Fundamental breaches of Contract include, but shall not be limited to the following:

(a) the Contractor stops work for 45 days when no stoppage of work is shown on the current Program and the stoppage has not been authorized by the Employer;
(b) Deleted.
(c) The Contractor becomes bankrupt or goes into liquidation other than for a reconstruction or amalgamation;
(d) Deleted.
(e) the Employer gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Employer;
(f) the Contractor does not maintain a security which is required;
(g) the Contractor has delayed the completion of works by the number of days for which the maximum number of liquidated damages can be paid as defined in the Contract data; and
(h) if the Contractor, in the judgment of the Employer has engaged in corrupt or fraudulent practices in competing for or in the executing the Contract.
For the purpose of this paragraph: "corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract

execution. “Fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Borrower, and includes collusive practice among Tenderers (prior to or after Tender submission) designed to establish Tender prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition.”
When either party to the Contract gives notice of a breach of contract to the Employer for a cause other than those listed under Sub Clause 49.2 above, the Employer shall decide whether the breach is fundamental or not.
Notwithstanding the above, the Employer may terminate the Contract for convenience.
If the Contract is terminated the Contractor shall stop work immediately, make the Site safe and secure and leave the Site as soon as reasonably possible.

50. Payment upon Termination

If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Employer shall prepare bill for the value of the work done less advance payments received up to the date of the bill, less other recoveries due in terms of the contract, less taxes due to be deducted at source as per applicable law and less the percentage to apply to the work not completed as indicated in the Contract Data. Additional Liquidated Damages shall not apply. If the total amount due to the Employer exceeds any payment due to the Contractor the difference shall be a debt payable to the Employer.
If the Contract is terminated at the Employer's convenience or because of a fundamental breach of Contract by the Employer, the Employer shall prepare bill for the value of the work done, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works and less advance payments received up to the date of the certificate, less other recoveries due in terms of the contract, and less taxes due to be deducted at source as per applicable law and make payment accordingly.

51. Property

All materials on the Site, Plant, Equipment, Temporary Works and Works are deemed to be the property of the Employer, if the Contract is terminated because of a Contractor’s default.

52. Release from performance

If the Contract is frustrated by any event entirely outside the control of either the Employer or the Contractor the Employer shall certify that the Contract has been frustrated. The Contractor shall make the Site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all work carried out before receiving it and for any work carried out afterwards to which commitment was made

F. Special Conditions of Contract

1. Labour :

The Contractor shall, unless otherwise provided in the Contract, make his own arrangements for the engagement of all staff and labour, local or other, and for their payment, housing, feeding and transport.

The Contractor shall, if required by the Employer, deliver to the Employer a return in detail, in such form and at such intervals as the Employer may prescribe, showing the staff and the numbers of the several classes of labour from time to time employed by the Contractor on the Site and such other information as the Employer may require.

2. Compliance with labour regulations:

During continuance of the contract, the Contractor shall abide at all times by all existing labour enactments and rules made there under, regulations, notifications and bye laws of the State or Central Government or local authority and any other labour law (including rules), regulations, bye laws that may be passed or notification that may be issued under any labour law in future either by the State or the Central Government or the local authority. The Contractor shall keep the Employer indemnified in case any action is taken against the Employer by the competent authority on account of contravention of any of the provisions of any Act or rules made there under, regulations or notifications including amendments. If the Employer is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications/bye laws/Acts/Rules/regulations including amendments, if any, on the part of the Contractor, Employer shall have the right to deduct any money due

to the Contractor including his amount of security deposit. The Employer shall also have right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by the Employer.

The employees of the Contractor in no case shall be treated as the employees of the Employer at any point of time.

3. Protection of Environment:

The contractor shall take all reasonable steps to protect the environment on and off the Site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other causes arising as a consequence of his methods of operation. During continuance of the contract, the contractor shall abide at all times by all existing enactments on environmental protection and rules made there under, regulations, notifications and bye-laws of the State or Central Government, or local authorities and any other law, bye-law, regulations that maybe passed or notification that may be issued in this respect in future by the State or Central Government or the local authority.

4. Arbitration (Clause 24)

The procedure for arbitration shall be as follows:

(a) In case of dispute or difference arising between the Employer and the Contractor relating to any matter arising out of or connected with this agreement it shall be settled in accordance with the Arbitration and Conciliation Act 1996. The disputes or differences shall be referred to a Sole Arbitrator. The Sole Arbitrator shall be appointed by agreement between the parties; failing such agreement, by the Appointing Authority (any one of the Organizations as per list enclosed in Annexure)
(b) Arbitration proceedings shall be held at……., Karnataka state(to be filled in by the Employer before issue of the Tender Documents),
(c) The cost and expenses of arbitration proceedings will be paid as determined by the Arbitrator. However the expenses incurred by each party in connection with the preparation, presentation, etc., shall be borne by each party itself.
(d) Performance under the contract shall continue during the arbitration proceedings and payments due the Contractor by the Employer shall not be withheld, unless they are the subject matter of the arbitration proceedings.

5. In the case of the death of a Contractor after executing the agreement / commencement of the work, his legal heir, if an eligible registered Contractor and willing can execute and complete the work at the accepted tender rates irrespective of the cost of the work.

6. The Contractor shall provide One four-wheeler along with driver, fuel expenses to Project Engineers in-charge of work to facilitate and co-ordinate the supervision of the work.

7. The Contractor shall establish field lab and field office to facilitate quality assurance of execution of works.

[Add other Clauses specific to the work for which tenders are invited.]

Annexure:

LIST OF ORGANIZATIONS WHO ARE CONSIDERED AS APPOINTING AUTHORITY FOR APPOINTMENT OF ARBITRATORS[5]

1. Indian Council of Arbitration, New Delhi;
2. International Centre for Alternative Disputes Resolution (India);
3. Indian Roads Congress;
4. Indian Building Congress;
5. Indian Institute of Bridge Engineers;
6. Indian Institute of Public Health Engineers;
7. Institute of Water Works
8. SWM Rules-2016, BBMP Bye-Laws per SWM

SECTION 6: CONTRACT DATA

Items marked "N/A" do not apply in this Contract.

The following documents are also part of the Contract:	**Clause Reference**
• The Schedule of Operations Manuals	[48]
• The Methodology and Program of Construction	[25]
• Site Investigation Reports	[14]
• The Schedule of Key and Critical Equipment to be deployed on the work as per agreed program of construction.	[25]

The Employer is :

Name: **The Managing Director** [1.1]
BSWML, Bangalore

Name of authorized Representative:
Office of the Chief Engineer & Chief
General Manager (Tech), BSWML,
1st Floor, UNI Building,
Thimmaiah road, Bengaluru-560052

The name and identification number of the Contract is **CE&CGM (Tech)/BSWML/TEND/09/2023-24 , Date:22.02.2024**
[1.1]

"Protection of SWM site with boundary wall construction at Kogilu Sy.No.99 and Other such places."

The Works consist of Fire Protection Project/Fire extinguishing equipment supply works for creating infrastructure.
The start date shall be the date of issue of notice to proceed with the work. [1.1]

The Intended Completion Date for the whole
of the Works is **9 months** with the following milestones [17, 26]

The Defects Liability Period is ONE years after submitting COMPLETION REPORT.

The Site Possession Date is: Date of work order [21]

The Sites are located at various locations in BBMP Limits mainly at Kogilu Village Sy.No.99 and is defined in drawings nos. _____ [1.1]

"Protection of SWM site with boundary wall construction at Kogilu Sy.No.99 and Other such places."

Insurance requirements are as under:

	Type of Cover	Minimum cover for Insurance[6]
(i)	Works and of Plant and materials	The sum stated in the Agreement (contract Value) plus 20%
(ii)	Loss or damage to equipment	Full replacement cost
(iii)	Loss or damage to property of Third Party	Full replacement cost
(iv)	Personal injury or death insurance (a) for Third Party[7]	5.00 Lakhs each person
	(b) for Contractor's employees or labour	In accordance with the statutory requirements applicable to Karnataka Rs. 5.00Lakhs each person

Price Adjustment Formula**; (DELETED)** [40]

The liquidated damages for the whole of the works are Rs.80,000.00 (amount) per day[54]and that for the milestones are as under:

For Milestone1:	Rs. 20,000.00 per day
For Milestone2:	Rs. 30,000.00 per day
For Milestone3:	Rs. 20,000.00 Per day

The maximum amount of liquidated damages for the whole of the works

[41]is Ten percent of final contract price.

The amounts of the advance payment are [42]

Nature of Advance	Amount (Rs.)	Conditions to be fulfilled
1. Mobilization	5% of the Contract price	On submission of un-conditional Bank Guarantee. (to be drawn before end of 20% of Contract period)

(The advance payment will be paid to the Contractor no later than 30 days after fulfillment of the above conditions).

Repayment of advance payment for mobilization : [42]

The advance loan shall be repaid with percentage deductions from the interim payments certified by the Engineer under the Contract. Deductions shall commence in the next Interim Payment Certificate following that in which the total of all suchpayments to the Contractor has reached not less than 15 percent of the Contract Price or Three months from the date of payment of first installment of advance, whichever period concludes earlier, and shall be made at the rate of 7.5% percent of the amounts of all Interim Payment Certificates until such time as the loan has been repaid, always provided that the loan shall be completely repaid prior to the expiry of the original time for completion pursuant to Clauses 17 and 26.

[9]The date by which "as-built"[10] drawings (in scale …[11]) in 2 sets are required is within

[8] To be filled up by the Employer before issue of the tender document; say „Three or four months"

30 days of issue of certificate of completion of Whole or Section of the Work as the case may be. [48]

[12]The date by which Village developmental work are required is within 30 days of issue of certificate of completion of Whole or Section of the Work as the case may be. [48]

(The amount should be sufficient to get the completion drawings or operating and Maintenance Manuals prepared by alternative agency in case the contractor fails to submit.)

[48]The following events shall also be fundamental breach of the contract:

[

49.2]

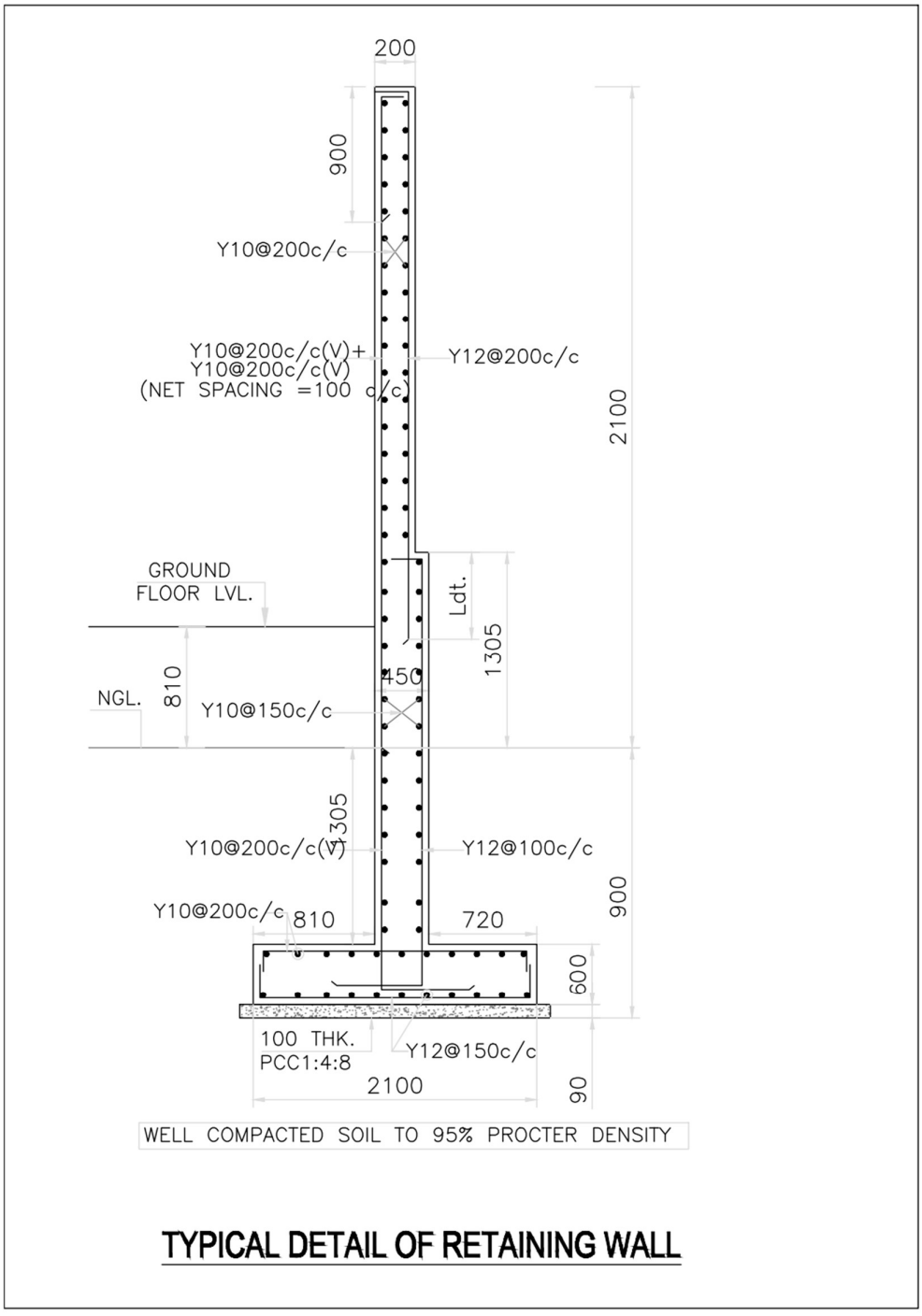
1. The contractor has contravened Sub-clause 7.1 and Clause 9 of CC.

The percentage to apply to the value of the work not completed representing the Employer's [50.1]

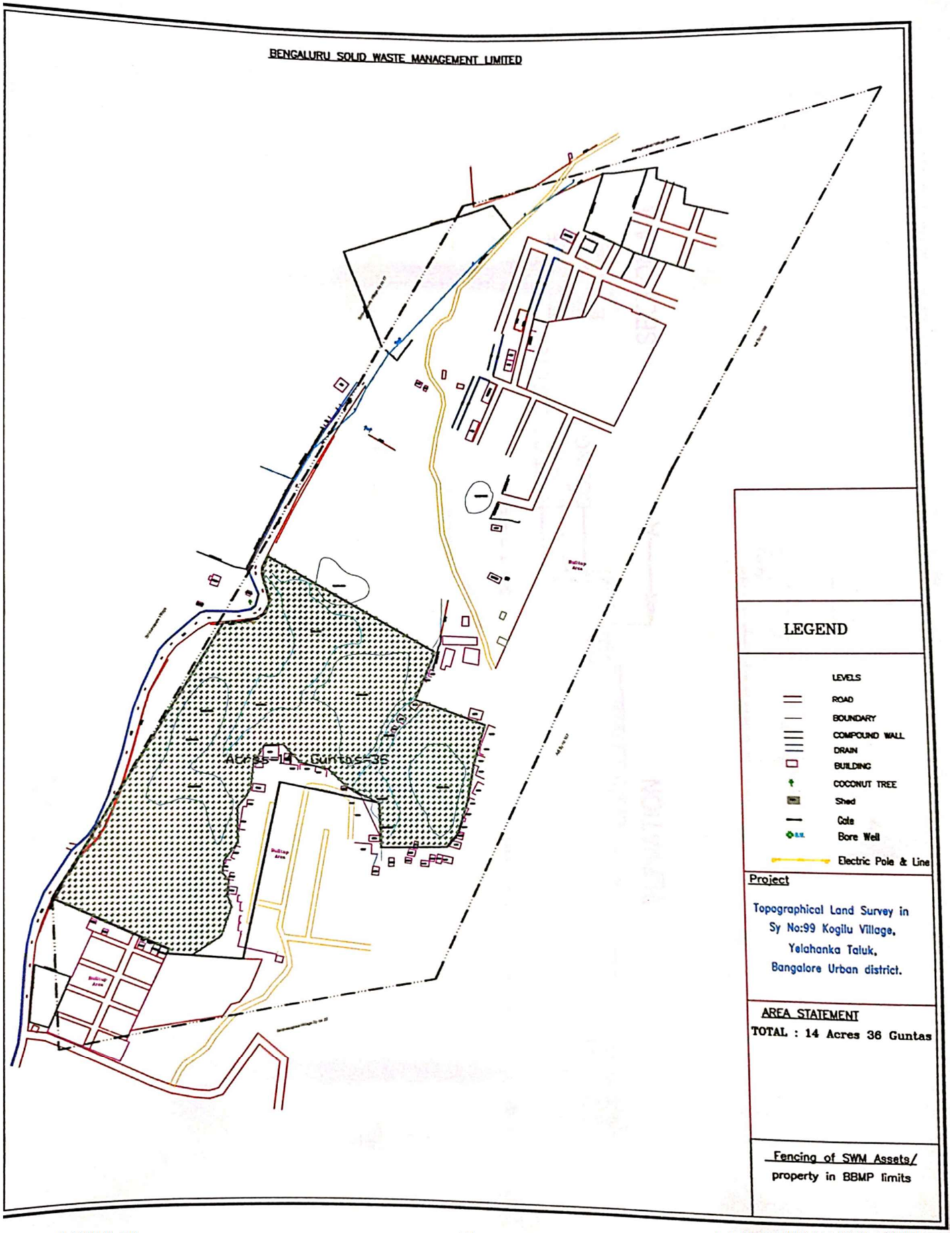
Additional cost for completing the Works shall be 30 percent (30%) .

SECTION 8: DRAWINGS
As per approved Drawings

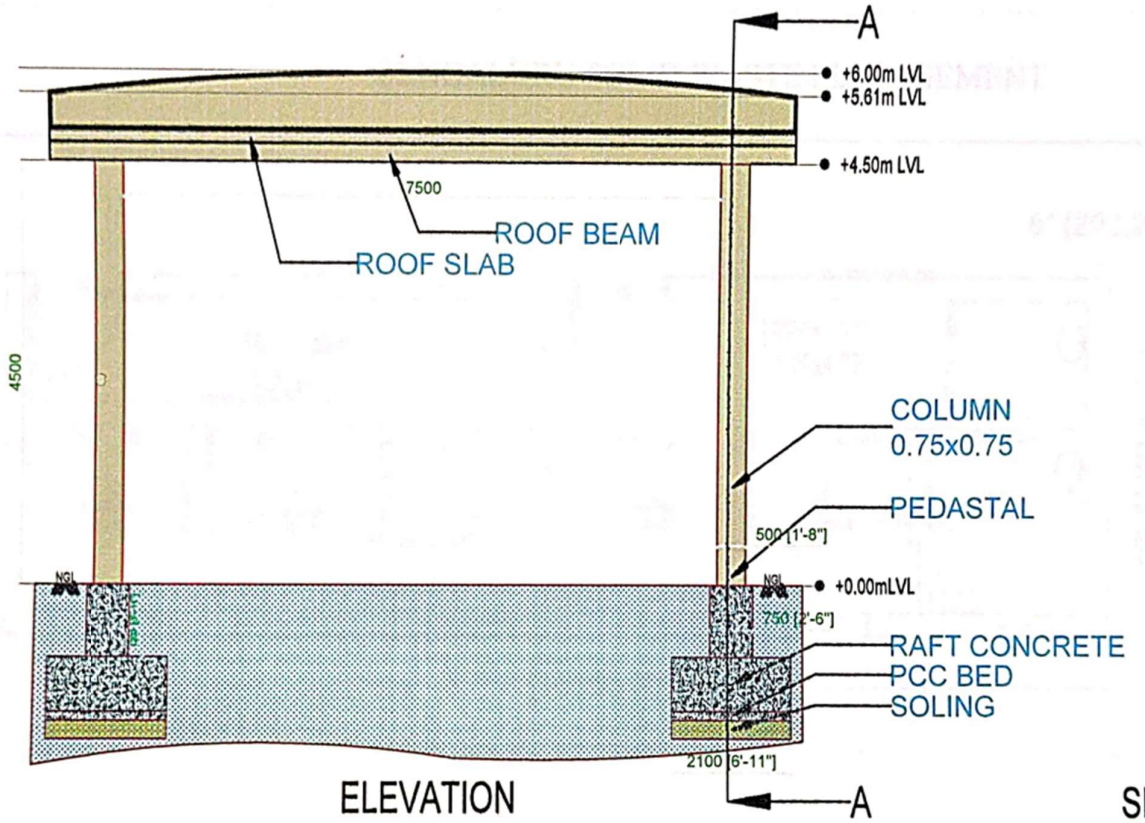
All Drawing for reference only



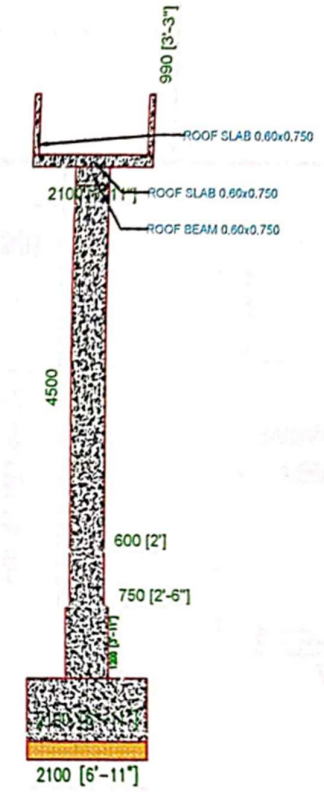
TYPICAL DETAIL OF RETAINING WALL


BENGALURU SOLID WASTE MANAGEMENT LIMITED
Acres=14 Guntas=36
LEGEND
LEVELS
ROAD
BOUNDARY
COMPOUND WALL
DRAIN
BUILDING
COCONUT TREE
Shed
Cats
Bore Well
Electric Pole & Line
Project
Topographical Land Survey in
Sy No:99 Kogilu Village,
Yelahanka Taluk,
Bangalore Urban district.
AREA STATEMENT
TOTAL : 14 Acres 36 Guntas
Fencing of SWM Assets/
property in BBMP limits

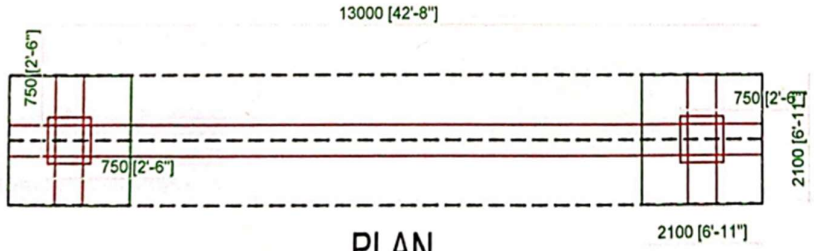
NAME OF WORK: Fencing of SWM Assets/property in BBMP limits Entry Arch



ELEVATION



SECTION A-A



PLAN

BENGALURU SOLID WASTE MANAGEMENT

CONSULTING CIVIL ENGINEERS.

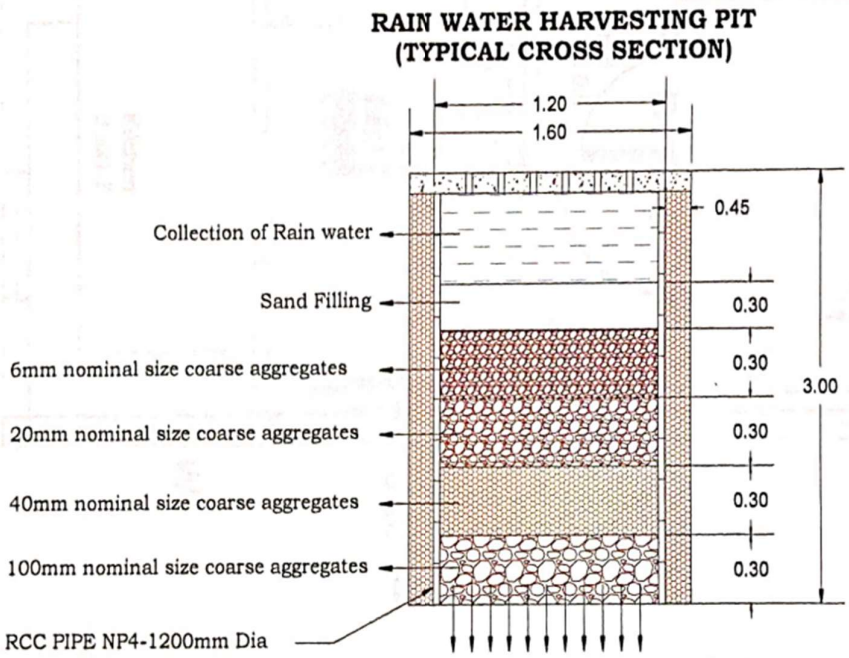
Infra Technocrats Consultants

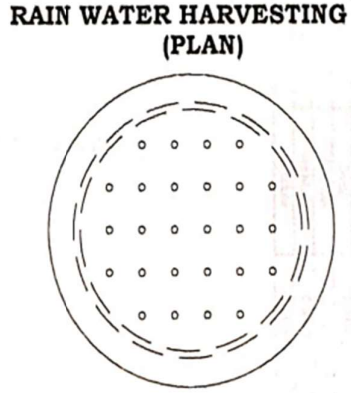
ARCHITECTS, ENGINEERS
BANGALORE-560079
MOB:- 9964362880
E-mail:-infratechnocrats2017@gmail.com

DATE:

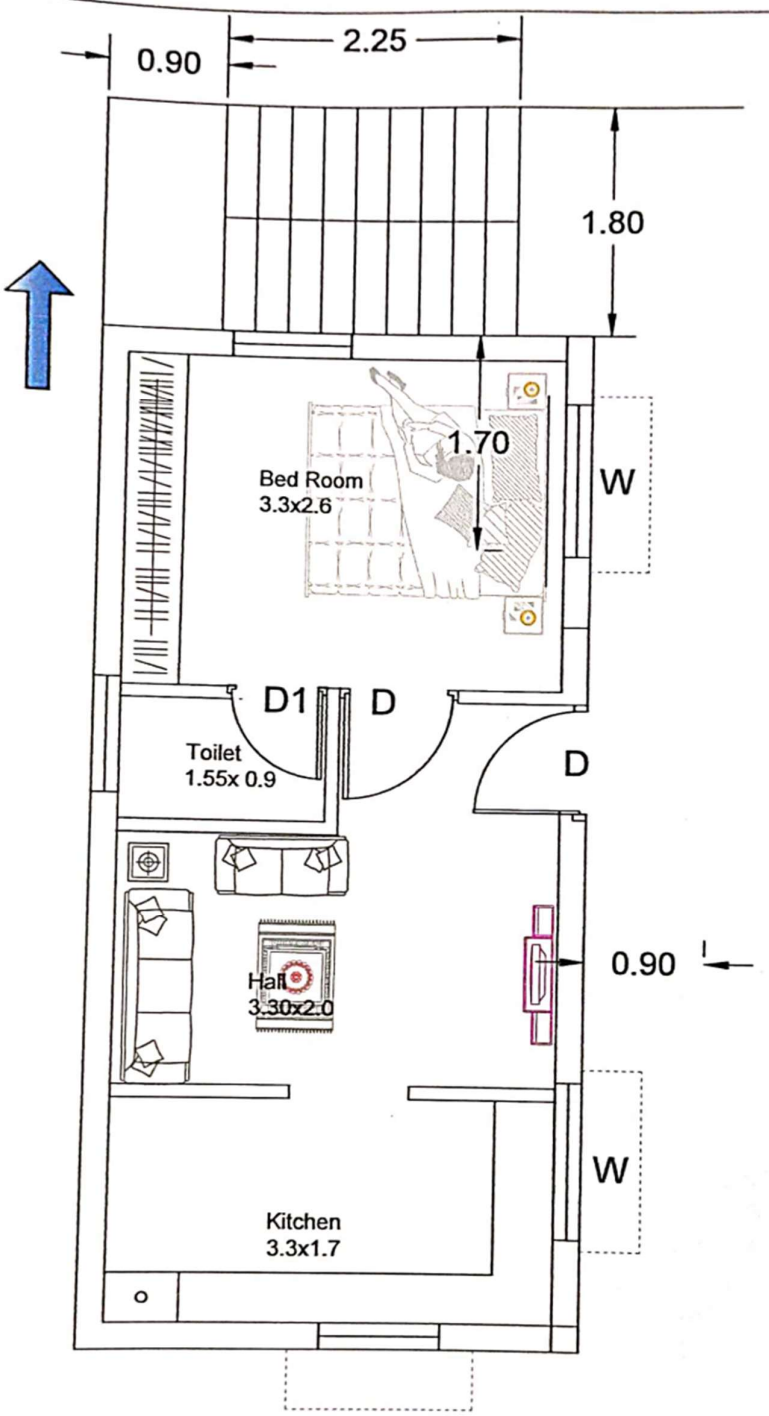
DRAWN : DEEPA L.S.
CHKD : MK

Construction of Rain Water Harvesting Pit





BENGALURU SOLID WASTE MANAGEMENT



Schedule of Openings		
D	Door	0.9 x 2.1
D1	Door	0.75 x 2.1
W	Window	1.2 x 1.2
V	Ventilator	0.6 x 0.60
W1	Window	0.90 x 1.2

Employee Quarters

CONSULTING CIVIL ENGINEERS.

Infra Technocrats Consultants
ARCHITECTS, ENGINEERS
BANGALORE-560079
MOB:- 9964362880
E-mail:-infratechnocrats2017@gmail.com

BUILDING FOR PROPOSED QUARTERS

DATE:

DRAWN : DEEPA L.S.
CHKD : MK
DRG.NO.: 27/116

Sl. No.	Description of Item	Unit	Quantity	Rate in figures	Rate in words
1	Earth work excavation for Foundation by mechanical means for all works & depth upto 3 m, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenaces required to complete the work In ordinary/soft rock without blasting upto 1.5 m depth	Cum	160.407	399.3	Rupees Three Hundred Ninety Nine Paise Thirty Only
2	Earth work excavation for Foundation by mechanical means for all works & depth upto 3 m, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenaces required to complete the work-In all kinds of soils Depth upto 3 m	Cum	248.454	112.2	Rupees One Hundred Twelve Paise Twenty Only
3	Providing and injecting chemical emulsion for Pre-constructional Anti-Termite Treatment, creating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits with Chlorpyriphos 20% E.C. / Lindane 20% E.C. @ 3.19 l/m2 including cost of chemical, diluting in water to one percent concentration, labour, usage charges of machinery, complete as per specifications.	Sqm	177.575	129.8	Rupees One Hundred TwentyNine Paise Eighty Only
4	Providing and Filling in foundation with granite / trap broken metal 100mm. and down size & with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift complete as per specifications.	Cum	14.32872	2682	Rupees Two Thousand Six Hundred EightyTwo Only
5	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) -Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates	Cum	515.6303	6587.9	Rupees Six Thousand Five Hundred EightySeven Paise Ninety Only

6	Providing and laying in position Reinforced cement concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately)-M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates-Foundation upto Plinth-a. Isolated	Cum	58.287	7527.168	Rupees Seven Thousand Five Hundred TwentySeven Paise Seventeen Only
7	Providing and laying in Reinforced cement concrete for all Basement & surface level works, return walls, retaining walls, sunken floors etc. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately)-M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates-RCC Columns / Shaft (Slip Centering)-Ground Floor	Cum	8.826	12117.6	Rupees Twelve Thousand One Hundred Seventeen Paise Sixty Only
8	Providing and laying in Reinforced cement concrete for all Basement & surface level works, return walls, retaining walls, sunken floors etc. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately)-M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates-RCC Columns / Shaft (Slip Centering)-First Floor	Cum	2.298	12238.78	Rupees Twelve Thousand Two Hundred ThirtyEight Paise SeventyEight Only
9	Providing and laying in Reinforced cement concrete for all Basement & surface level works, return walls, retaining walls, sunken floors etc. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately)-M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates-Plinth Beams-Ground Floor	Cum	25.9824	10692	Rupees Ten Thousand Six Hundred NinetyTwo Only

10	Providing and laying in Reinforced cement concrete for all Basement & surface level works, return walls, retaining walls, sunken floors etc. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately)-M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates-Beams & Lintels of Building,Roof (Straight & Arched)-Ground Floor	Cum	43.72358	11404.8	Rupees Eleven Thousand Four Hundred Four Paise Eighty Only
11	Providing and laying in Reinforced cement concrete for all Basement & surface level works, return walls, retaining walls, sunken floors etc. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately)-M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates-Chejjas, Canopy & Other Architectural projections of minor sections-Ground Floor	Cum	2.538	10335.6	Rupees Ten Thousand Three Hundred ThirtyFive Paise Sixty Only
12	Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per pecifications. (The laps and wastages shall not be measured separately).-Ground Floor	Tonne	21.53522	98402.7	Rupees NinetyEight Thousand Four Hundred Two Paise Seventy Only
13	Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per pecifications. (The laps and wastages shall not be measured separately).-First Floor	Kgs	0.126	99386.73	Rupees NinetyNine Thousand Three Hundred EightySix Paise SeventyThree Only
14	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	134.325	292.6	Rupees Two Hundred NinetyTwo Paise Sixty Only
15	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specification-Ground Floor	Sqm	429.48	1441	Rupees One Thousand Four Hundred FourtyOne Only

16	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specification-First Floor	Sqm	110.7	1455.41	Rupees One Thousand Four Hundred FiftyFive Paise FourtyOne Only
17	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x100x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery ce tcomplete as per specifications-Ground Floor	Sqm	255.9375	1214.4	Rupees One Thousand Two Hundred Fourteen Paise Fourty Only
18	Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.-Ground Floor	Sqm	483.405	389.4	Rupees Three Hundred EightyNine Paise Fourty Only
19	Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.-First Floor	Sqm	281.94	393.294	Rupees Three Hundred NinetyThree Paise TwentyNine Only
20	Providing 12 mm cement plaster with cement mortar 1:6 (1 cement: 6 fine sand) including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.-Ground Floor	Sqm	996.1275	265.1	Rupees Two Hundred SixtyFive Paise Ten Only
21	Providing 15 mm cement plaster on the rough side of single or half brick wall of mix :1:6 (1 cement: 6 fine sand) including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.-Ground Floor	Sqm	234.3375	306.9	Rupees Three Hundred Six Paise Ninety Only
22	Providing skirting, dadooing, rises of steps with colour glazed tiles 6mm thick on 10mm thick cement plaster 1:3 and jointed with white cement slurry over existing rough plaster surface using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Ground Floor	Sqm	234.3375	1593.9	Rupees One Thousand Five Hundred NinetyThree Paise Ninety Only
23	Providing and laying vitrified floor tiles with thickness 9-10 mm in different sizes with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ m2 including grouting the joints with white cement and matching pigments etc., complete..-Ground Floor Size of Tile 600x600 mm	Sqm	120.66	1259.5	Rupees One Thousand Two Hundred FiftyNine Paise Fifty Only

24	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ m2 including pointing the joints with white cement and matching pigments etc., complete	Sqm	36.45	977.9	Rupees Nine Hundred SeventySeven Paise Ninety Only
25	Providing and fixing M.S. grills of required pattern in frames of win - dows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings / wooden frames with rawl plugs screws etc.-Ground FLoor	Kgs	744.66	201.3	Rupees Two Hundred One Paise Thirty Only
26	Providing & fixing of 2.5 track x 2-panel sliding windows made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free, gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the window frame. The outer frame having an overall size of 81mm width x 42mmheight with reinforcement of 1mm thickness and Sash with overall size of 31mm x 57mm and mesh sash of size with GI reinforcement of 1.5mm thickness. Coextruded Glazing bead for fixing of glass shall be of size 21.5mm x 9.5mm. Windows shall be provided with 5mm plain float glass, standard hardware& single point locking system with touch lock. Wall thickness of frame & sash shall be of 1.8-2.0mm. Maximum possible size – 1519mm x 1519mm (The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made)-Ground FLoor	Sqm	12.24	6747.53	Rupees Six Thousand Seven Hundred FourtySeven Paise FiftyThree Only
27	Providing Mathi/Nandi wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, usage chargescomplete as per specifications.-Ground Floor	Cum	1.3725	136622.2	Rupees One Lakh ThirtySix Thousand Six Hundred TwentyTwo Paise Twenty Only
28	Providing and fixing flush door shutter made out of solid core block board type, well seasoned , chemicaly treated hard wood battens and internal frame with minimum 45 mm wide wooden frame alround door shutters covered with cross bonded wooden sheets (core veneer) hot pressed and fastened on both sides of the door useing liquid phenol formaldehyde resin as per IS specifications 2202 (part-I) 1991. from manufacturer complete as per spcification.--do- 35 mm thick both side commercial-Ground Floor	Sqm	32.13	3654.2	Rupees Three Thousand Six Hundred FiftyFour Paise Twenty Only
29	Providing & fixing factory made PVC Door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet metered cut at corners & jointed 2 No.s of 150mm long brackets of 15x15mm M.S Square tube, the entire door frame to be reinforced with 19x19mm M.S Square tube of 19 gauge. The door frame to be fixed to the wall using M.S. Screws of 65/80mm size complete as per manufacturers specification & direction of Engineer-in-charge Ground Floor	M	68.4	349.8	Rupees Three Hundred FourtyNine Paise Eighty Only

30	Providing & fixing 30mm thick factory made rigid foam Prelam Panelled Door Shutters made from M.S. tube of 19x19mm, 19 gauge for stiles and 15x15mm for top & bottom rails, covered with heat moulded Prelaminated PVC C Channel of 5mm thick sheet & 30x50mm wide to form stiles & 5mm thick & 75mm wide Prelaminated PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick, 20mm wide cross PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet Prelaminated on either side fitted in the M.S. frame, Sealed to the stiles & rails with PVC Designer beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75mm Aluminium hinges. Ground Floor	sqm	18.9	2602.6	Rupees Two Thousand Six Hundred Two Paise Sixty Only
31	Fixing of window frame in an existing opening including embedding frame in floor and walls after cutting masonry for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and down size granite metal painting two coats of coal tar to sides of frame, making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m. including cost of materials, labour charges, complete as per specifications. Ground Floor	No's	34	850.3	Rupees Eight Hundred Fifty Paise Thirty Only
32	Providing and fixing chromium plated brass butt hinges with necessary chromium plated brass screws etc. complete 125x70x4 mm (ordinary type)	Nos	96	187	Rupees One Hundred EightySeven Only
33	Providing and fixing 85x42 mm chromium plated brass pull bolt lock with necessary chromium plated brass screws, nuts, bolts and washers etc. complete	Nos	43	251.9	Rupees Two Hundred FiftyOne Paise Ninety Only
34	Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete including cost of materials, labour, usage charges of machinery complete as per specifications. (Upto First Floor)	Nos	28	480.7	Rupees Four Hundred Eighty Paise Seventy Only
35	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.	Nos	10	1225.4	Rupees One Thousand Two Hundred TwentyFive Paise Fourty Only
36	Providing and fixing aluminium tubular handle bar 32 mm outer dia,3.0 mm thick & 2100 mm long with SS screws etc .complete as per direction of Engineer-in-Charge.: Anodized (AC 15) aluminium tubular handle bar including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineerin-Charge	Nos	16	644.6	Rupees Six Hundred FourtyFour Paise Sixty Only
37	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete : 250x10mm	Nos	16	448.05	Rupees Four Hundred FourtyEight Paise Five Only
38	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete as per specifications and as per directions of Engineer in charge-Ground Floor	Sqm	996.1275	110	Rupees One Hundred Ten Only

39	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content. With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre as per specifications and as per directions of Engineer in charge.-Ground Floor	Sqm	447.405	58.3	Rupees FiftyEight Paise Thirty Only
40	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content. With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre as per specifications and as per directions of Engineer in charge.-Ground Floor	Sqm	158.76	58.883	Rupees FiftyEight Paise EightyEight Only
41	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications: Two coats applied on walls @ 1.25 ltr/10 m² over and including one coat of Special primer applied @ 0.75 ltr /10 m² with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.	Sqm	996.1275	173.8	Rupees One Hundred SeventyThree Paise Eighty Only
42	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade: New work (Two coats applied @ 1.43 ltr/10 m² over and including priming coat of exterior primer applied @ 2.20 kg/10 m²) with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.	Sqm	447.405	195.8	Rupees One Hundred NinetyFive Paise Eighty Only
43	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade: New work (Two coats applied @ 1.43 ltr/10 m² over and including priming coat of exterior primer applied @ 2.20 kg/10 m²) with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.	Sqm	158.76	197.758	Rupees One Hundred NinetySeven Paise SeventySix Only
44	Painting on Wood Surfaces-Providing and applying two coats of ready mix paint of approved brand on wood surface after thorough cleaning of surface to give an even shade-Ground Floor	Sqm	49.14	115.5	Rupees One Hundred Fifteen Paise Fifty Only
45	Providing and laying water proofing treatment to the Roof with PU based single component elastomeric pure polyurethane based coating on New terrace/Chajjas/Sunken portion of WC:Bathroom, cold applied PU waterproofing membrane that is highly elastic with elongation greater than 400% and tensile strength greater than 2MPa as per ASTM D412. The waterproofing membrane to be applied in 2coats @ 1.6kg per m2 to achieve final DFT (dry film thickness) of 1mm including prime coat of epoxy primer @150 g per m2 and protection with 120gsm Geo-textile over the waterproofing membrane. The finished cost to include surface preparation, making coving at Junction, Bore Packing, treatment of construction joints completely as per specification & with a 10 years warranty on product & work from certified manufacturers as per the direction of the Engineer In charge.-Ground	Sqm	70.98	898.7	Rupees Eight Hundred NinetyEight Paise Seventy Only

46	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making goodthe walls and floors wherever required	Each	12	6574.7	Rupees Six Thousand Five Hundred SeventyFour Paise Seventy Only
47	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	Unit	6	3390.2	Rupees Three Thousand Three Hundred Ninety Paise Twenty Only
48	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :One urinal basin with 5 litre white .PV.C. automatic flushing cistern	Unit	4	4899.4	Rupees Four Thousand Eight Hundred NinetyNine Paise Fourty Only
49	Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete :White solid plastic seat with lid	Pair	12	598.4	Rupees Five Hundred NinetyEight Paise Fourty Only
50	Providing and fixing 100 mm sand cast Iron grating for gully trap.	Each	10	51.7	Rupees FiftyOne Paise Seventy Only
51	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete..	Each	8	1342	Rupees One Thousand Three Hundred FourtyTwo Only
52	Providing and fixing brass stop cock of approved quality :20 mm nominal bore	No's	20	335.5	Rupees Three Hundred ThirtyFive Paise Fifty Only
53	Providing and fixing brass bib cock of approved quality :20 mm nominal bore	No's	30	335.5	Rupees Three Hundred ThirtyFive Paise Fifty Only
54	Providing and fixing Brass full way valve gate with C.I. wheel of approved quality (screwed end) :25 mm nominal bore	No's	10	603.9	Rupees Six Hundred Three Paise Ninety Only
55	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.-15 mm nominal dia pipes	Mtr	60	339.9	Rupees Three Hundred ThirtyNine Paise Ninety Only

56	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.-20 mm nominal dia pipes	Mtr	100	416.9	Rupees Four Hundred Sixteen Paise Ninety Only
57	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.-25 mm nominal dia pipes	Mtr	90	524.7	Rupees Five Hundred TwentyFour Paise Seventy Only
58	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal sibility for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work-32 mm nominal dia Pipes	Mtr	60	612.7	Rupees Six Hundred Twelve Paise Seventy Only
59	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal sibility for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work-50 mm nominal dia Pipes	Mtr	70	793.1	Rupees Seven Hundred NinetyThree Paise Ten Only
60	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal sibility for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work-100 mm nominal dia Pipes	Mtr	40	2776.4	Rupees Two Thousand Seven Hundred SeventySix Paise Fourty Only
61	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	liter	4000	9.9	Rupees Nine Paise Ninety Only
62	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber l00mm x l00mm size P type with Non Modular common burnt clay bricks of designation 3.S& water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and rrame to be not less than 2.70 kg as per standard design:	Each	8	2785.2	Rupees Two Thousand Seven Hundred EightyFive Paise Twenty Only
63	Providing and fixing kitchen sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P. brass waste complete, including painting the fittings and brackets, cutting and making good the walls wherever required: 14.9.1 White glazed fire clay kitchen sink of size 600x450x 250 mm	Each	2	3279.1	Rupees Three Thousand Two Hundred SeventyNine Paise Ten Only

64	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes 100 mm diameter	Mtr	184	320.1	Rupees Three Hundred Twenty Paise Ten Only
65	Providing, supplying to work site,Single Phase Submersible Pump Sets of 100mm dia (4 inch) suitable for bore well confirming to IS 8034-2000 specifications,with testing of as per instructions of engineer incharge of work and latest amendments.For 1.00 HP/0.75KW 10 stage	Each	4	14649.8	Rupees Fourteen Thousand Six Hundred FourtyNine Paise Eighty Only
66	Providing and fixing Unplasticised Polyvinyl Chloride (uPVC) pipes, for cold water supply including all uPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step uPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work 150 mm nominal dia Pipes	Mtr	100	1752.3	Rupees One Thousand Seven Hundred FiftyTwo Paise Thirty Only
67	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 600X850 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 fine sand : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc	Each	8	8141.1	Rupees Eight Thousand One Hundred FourtyOne Paise Ten Only
68	Providing and fixing PVC (S.W.R) Nahani Trap 10cms x 10cms with all fitting arrangements & all necessary accessories complete	Each	8	242	Rupees Two Hundred FourtyTwo Only
69	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, including removal and disposal of top organic soil not exceeding 150 mm in thickness. b In area of thorny jungle	100 m^2	13.065	1650	Rupees One Thousand Six Hundred Fifty Only
70	Earth work excavation by manual means for drains, canals, waste weir draft, approach channels, key trench, foundation of Buildings & Bridges and such similar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work In all kinds of soils Depth upto 1.5 m	Cum	3632.94	266.2	Rupees Two Hundred SixtySix Paise Twenty Only

71	Providing and laying in position Cement Concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates	Cum	2256.18	9389.66	Rupees Nine Thousand Three Hundred EightyNine Paise SixtySix Only
72	FabricationSupplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancilary operations complete as per drawing and technical specification-All other type of structures	Tonnes	232.3451	86912.1	Rupees EightySix Thousand Nine Hundred Twelve Paise Ten Only
73	Providing and laying 100mm thick pre-cast cover slabs over Road side drains / utility ducts / Rain water harvesting pit of width not exceeding 1000 mm using M20 concrete reinforced with TMT bars Fe 550 @ 6kg/ m2, slabs jointed in CM 1:3 proportion and nicely finished Including providing holes in the Cover slabs wherever necessary for easy drainage of surface water including of labour, materials, scaffolding, usage of machinery, curing, lead and lift charges etc, Complete	Sqm	783.9	1287	Rupees One Thousand Two Hundred EightySeven Only
74	providing 230 mm precast slab including all charges for transportaion erecting complete as per specification and as per the directions of Engineer in charge of the work	sqm	18	5037	Rupees Five Thousand ThirtySeven Only
75	Providing and fixing Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished seamless type tubes including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge- Third Floor	Sqm	23804.4	166.551	Rupees One Hundred SixtySix Paise FiftyFive Only
76	Dewatering the sewage / storm water by using reqired HP submersible pump for the diversion of storm / sewage during the execution of work. Considering for one Pump. 16.55.2 10 hp pump	Hour	248.9103	468.6	Rupees Four Hundred SixtyEight Paise Sixty Only
77	Earth work in surface excavation by mechanical means for lowering & leveling the ground without blasting for all works other than foundation in Ordinary/ Soft rock & depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work	Cum	4943.952	398.2	Rupees Three Hundred NinetyEight Paise Twenty Only

78	Construction of Embankment with approved materials deposited at site from roadway cutting and excavation from drain and foundation of other structures graded with desired compaction.(COMMON SR Rates 2023-2024, Volume-1, Page No. 7,Item. No. 1.7)	Cum	89562	130.9	Rupees One Hundred Thirty Paise Ninety Only
79	Geophysical investigation at site for sinking borewells for supplying drinking water to the habitation either through the Hand Pump MWS or P.W.S.S, by vertical electrical sounding by adopting Venner or Schlumbergers's method, including reconnaissance survey of geological formation. Geophysical investigation of existing ground water in the vicinity, its quality, quantity and acceptability of the users, indicating the location of the site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 metre in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instruments and accessories to work site, engaging technical personal and labour required etc. NOTE: 1) Additional rate on item 1&2 is allowed for drilling in over burden and fixing Casing pipes beyond 20 M (for fixing Casing pipes only) a) Above 20 M and upto 30 M - 15%, b) Above 30 M - 30% (Measurement of overburden is restricted to the depth of casing pipe fixed excluding initial depth of 20M and projection above ground level). 2) A sum of Rs. 100/- is to be deducted for Dry Borewell towards yield test	Each	5	5816.8	Rupees Five Thousand Eight Hundred Sixteen Paise Eighty Only
80	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete) for:- Borewell depth of 0 to 50 m	m	250	407	Rupees Four Hundred Seven Only
81	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete) for:- Borewell depth of 50 to 100 m	m	250	510.4	Rupees Five Hundred Ten Paise Fourty Only
82	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete) for:- Borewell depth of 100 to 150 m	m	250	510.4	Rupees Five Hundred Ten Paise Fourty Only

83	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete) for:- Borewell depth of 150 to 200 m	m	250	542.3	Rupees Five Hundred FourtyTwo Paise Thirty Only
84	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete) for:- Borewell depth of 200 to 250 m	m	250	738.1	Rupees Seven Hundred ThirtyEight Paise Ten Only
85	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete) for:- Borewell depth of 250 to 300 m	m	250	814	Rupees Eight Hundred Fourteen Only
86	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete) for:- Borewell depth of 300 to 350 m	m	250	954.8	Rupees Nine Hundred FiftyFour Paise Eighty Only
87	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete) for:- Borewell depth of 350 to 400 m	m	250	1030.7	Rupees One Thousand Thirty Paise Seventy Only
88	Supply of ISI mark 175mm nominal bore,plain and steel casing pipe grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes, material and conforming to IS 1387-1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5-7m both ends.threaded conforming to IS 554-1985 one end fixed with socket conforming to IS 4270-2001 and the other end with screwed pipes all shall be responsibaly free from defects. The tubes shall be responsible straight end should be with ISI marking weighing 25.10kg/m.prices include Collar-Medium duty	m	60	2126.3	Rupees Two Thousand One Hundred TwentySix Paise Thirty Only

89	Providing and fixing MS casing collars as per IS 1239 (part-II) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and colars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments	Each	250	165	Rupees One Hundred SixtyFive Only
90	Providing and laying at site of work MS casing caps as per IS 1239 (part- II) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and colars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments including cost of material and labour charges for fixing, if any etc. complete with all lead and lifts and as directed by the Engineer in charge	each	40	180.4	Rupees One Hundred Eighty Paise Fourty Only
91	Supply and delivery of Centrifugal pumpset at site brand new best make and with discharge duty confirming to ISI standards and its latest amendments.-10 HP, size 80x65 Head 34.50M, Discharge 840 LPM	each	5	41385.3	Rupees FourtyOne Thousand Three Hundred EightyFive Paise Thirty Only
92	Supply and delivery of galvanized mild steel tubes of 6mtr standard length heavy duty (C Class) as per IS 1239 (Part-I) 1990 with latest amendments with ISI Mark (one end fitted with Heavy Duty collar and other end fitted with protective cover)-50mm Dia	each	335	3355	Rupees Three Thousand Three Hundred FiftyFive Only
93	Supply and delivery at site Brand new best make PVC insulated cable of Flat 3 core (sheathed) of nominal cross sectional area as per IS 694-1990 with ISI Mark and as per its latest amendments. 1x3x4 m2	each	4020	148.5	Rupees One Hundred FourtyEight Paise Fifty Only
94	Supply and delivery at site of brand new best make non-return valve as per IS 778/1984 with ISI Mark and as per its latest amendments-Size 50 mm	Each	5	1375	Rupees One Thousand Three Hundred SeventyFive Only
95	Providing and fixing GI union in existing GI pipe line, cutting and threading the pipe and making long screws including excavation, refilling the earth or cutting of wall and making good the same complete wherever required etc. for:20.88.6: 50 mm nominal bore	Each	5	726	Rupees Seven Hundred TwentySix Only
96	Supply and delivery at site wrought middle steel (galvanized) GI elbow confirming to IS 1239-II, 1991 with latest amendments if any for:For 50 mm dia GI elbow	each	5	293.7	Rupees Two Hundred NinetyThree Paise Seventy Only
97	Supply and delivery at site wrought middle steel (galvanized) GI hexagonal nipple confirming to IS 1239-II, 1991 with latest amendments if any.For 50 mm dia GI hexagonal nipple	each	5	234.3	Rupees Two Hundred ThirtyFour Paise Thirty Only
98	Providing wrought mild steel (galvanized) GI collar dia GI collar confirming to IS 1239-II, 1991 with latest amendments if any. For 50 mm dia	each	335	293.7	Rupees Two Hundred NinetyThree Paise Seventy Only

99	Supply, installing,testing and commissioning COMMON control panel consisting of the following INCOMING:1 No set of Phase indicating lamps with SFU of suitable rating 1 No, Analog Ammeter, 1 No Analog Voltmeter 1ni with Phase selector switch, Isolating switch OUTGOING for Main Electrical Pump: 1 No. MCB 1 No. DOL of S/D Starter suitable for respective HP 1 No. Electrcal Protection Like single Phase preventor, under voltage over Volage, under current over current & dry run protection suitable for the pump described above 1 no Indoor typ e NOTE: 1) DOLDirect Online Starter 2) S-D- Star Delta Starter-for outdoor-6 to 15 HP pumps	each	5	19250	Rupees Nineteen Thousand Two Hundred Fifty Only
100	Supply and laying insulated cable on messenger wire using 2 single core wire for a single phase and stringing PVC insulated and PVC sheathed 650 / 1100 V class aluminium conductor of sizes supported by 3.15mm GI messanger wire with two break insulators, one at each end of the span with suspenders at intervals 0.75m. Each suspender shall be procelain reel insulator of suitable core through which insulated wire passes and this reel insulator shall be fixed to the messenger wire usiing 2mm wire suitable bent and twisted. Separate reel insulator shall be provided for each wire, the messanger wire shall be ded-ended on the clamp provided to the departmentl pole. The work shall also include, supply and fixing short pole, guy set, MS eye bolt and pole support clamp etc. for SINGLE PHASE USING 2 WIRE 10 SQMM.	m	100	115.5	Rupees One Hundred Fifteen Paise Fifty Only
101	Supply and delivery at site best indigenous brand new power capacitor as per IS 2834/1986 with latest amendments with KPTCL authorities and erection, electrification and commissioning of the same at the location of respective pump sets.	Kvar	25	605	Rupees Six Hundred Five Only
102	Earthing: Providing and fixing and wiring earth electrode for grounding circuits IC cutouts and other equipments on the meter board in the pit. The pits should be filled up with equal proportion of salt and charcoal 150mm around the pipe to complete depth. The connection from the pipe to the conduits etc. is to established through GI wire of sizes as per clause 7.3.3 of IS 732 using 12mm bolts, nuts, washers and check nuts, the pipe shall have 16 through holes of 12mm dia	Job	6	4125	Rupees Four Thousand One Hundred TwentyFive Only
103	Providing and fixing suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps,bolts,nuts and washers etc. with necessary materials and labour tools and equipments as per instructions of engineer incharge of work.3½x10 Sqm	each	50	495	Rupees Four Hundred NinetyFive Only
104	Providing main connection from pole PVC insulated sheathed steel wire cable in GI pipe as per IS 1554/ 1988 with latest amendments with ISI mark from KPTCL pole to meter board unit.	m	35	93.5	Rupees NinetyThree Paise Fifty Only
105	Earth work excavation for Foundation by mechanical means for all works & depth upto 3 m, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenaces required to complete the work In ordinary/soft rock without blasting upto 1.5 m depth	Cum	64.32768	373.89	Rupees Three Hundred SeventyThree Paise EightyNine Only

106	Earth work excavation for Foundation by mechanical means for all works & depth upto 3 m, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenaces required to complete the work-In all kinds of soils Depth upto 3 m	Cum	24.12288	105.06	Rupees One Hundred Five Paise Six Only
107	40mm downsize	cum	66.33792	1428	Rupees One Thousand Four Hundred TwentyEight Only
108	20mm downsize	cum	6.03072	1599.6	Rupees One Thousand Five Hundred NinetyNine Paise Sixty Only
109	06mm downsize	cum	6.03072	1692	Rupees One Thousand Six Hundred NinetyTwo Only
110	RCC Perforated rings- 1200 mmx1250 mm	Each	30	8400	Rupees Eight Thousand Four Hundred Only
111	Providing and laying 100mm thick pre-cast cover slabs over Road side drains / utility ducts / Rain water harvesting pit of width not exceeding 1000 mm using M20 concrete reinforced with TMT bars Fe 550 @ 6kg/ m2, slabs jointed in CM 1:3 proportion and nicely finished Including providing holes in the Cover slabs wherever necessary for easy drainage of surface water including of labour, materials, scaffolding, usage of machinery, curing, lead and lift charges etc, Complete.	Cum	11.3076	1205.1	Rupees One Thousand Two Hundred Five Paise Ten Only
112	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal sibility for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work-100 mm nominal dia Pipes	Mtr	150	2599.72	Rupees Two Thousand Five Hundred NinetyNine Paise SeventyTwo Only
113	Providing and Filling in foundation with granite / trap broken metal 100mm. and down size & with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift complete as per specifications.	Cum	15.66	2950.2	Rupees Two Thousand Nine Hundred Fifty Paise Twenty Only
114	Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per pecifications. (The laps and wastages shall not be measured separately).-Ground Floor	Kgs	0.2187	99297.27	Rupees NinetyNine Thousand Two Hundred NinetySeven Paise TwentySeven Only

115	Providing & fixing of 2.5 track x 2-panel sliding windows made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free, gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the window frame. The outer frame having an overall size of 81mm width x 42mmheight with reinforcement of 1mm thickness and Sash with overall size of 31mm x 57mm and mesh sash of size with GI reinforcement of 1.5mm thickness. Coextruded Glazing bead for fixing of glass shall be of size 21.5mm x 9.5mm. Windows shall be provided with 5mm plain float glass, standard hardware& single point locking system with touch lock. Wall thickness of frame & sash shall be of 1.8-2.0mm. Maximum possible size – 1519mm x 1519mm (The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made)-Ground FLoor	Sqm	23.22	7206.1	Rupees Seven Thousand Two Hundred Six Paise Ten Only
116	Fixing of door frame in an existing opening including embedding frame in floor and walls after cutting masonry for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and down size granite metal painting two coats of coal tar to sides of frame, making good the damages to walls and floor as required and disposal of the debris with lead upto 50 m. including cost of materials, labour charges, complete as per specifications.-Ground Floor	No's	9	1117.6	Rupees One Thousand One Hundred Seventeen Paise Sixty Only
117	Providing and fixing 150 mm bright finished floor brass door stopper with rubber cushion, necessary brass screws etc. to suit shutter thickness complete as per the direction of Engineer-in-charge.	Nos	3	259.6	Rupees Two Hundred FiftyNine Paise Sixty Only
118	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete : 250x10mm	Nos	12	478.5	Rupees Four Hundred SeventyEight Paise Fifty Only
119	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in- charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts bolts, fasteners etc.) including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.-Ground Floor	Kgs	187.92	621.5	Rupees Six Hundred TwentyOne Paise Fifty Only

120	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in- charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts bolts, fasteners etc.) including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.-Ground Floor	Kgs	1483.92	633.93	Rupees Six Hundred ThirtyThree Paise NinetyThree Only
121	Painting on Steel Surfaces-Providing and applying two coats of ready mix paint of approved brand on steel surface after thorough cleaning of surface to give an even shade-Ground Floor	Sqm	23.22	105.6	Rupees One Hundred Five Paise Sixty Only
122	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work. complete with all lead and lift as per the direction of Engineer-in-charge. For New construction.	Cum	54.6	104.5	Rupees One Hundred Four Paise Fifty Only
123	Providing and laying in position Reinforced cement concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately)-M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates-Foundation upto Plinth-a. Isolated complete with all lead and lift as per the direction of Engineer-in-charge.	Cum	19.764	6969.6	Rupees Six Thousand Nine Hundred SixtyNine Paise Sixty Only
124	Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) for staircase M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates complete	Cum	18.45	7128	Rupees Seven Thousand One Hundred TwentyEight Only

	with all lead and lift as per the direction of Engineer-in-charge.				
125	Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) for staircase M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates complete with all lead and lift as per the direction of Engineer-in-charge.	Cum	24.141	11518.85	Rupees Eleven Thousand Five Hundred Eighteen Paise EightyFive Only
126	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) Mix 1:2:4 (M15) Using 20 mm nominal size graded crushed coarse aggregates complete with all lead and lift as per the direction of Engineer-in-charge.	Cum	2.4885	7114.844	Rupees Seven Thousand One Hundred Fourteen Paise EightyFour Only
127	Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m , and lift upto 1.5 m. Including cost of all labour complete as per specifications complete with all lead and lift as per the direction of Engineer-in-charge.	Cum	29.43	176	Rupees One Hundred SeventySix Only

128	Wall painting with acrylic emulsion paint (External) of approved brand and manufacture to give an even shade :Two coats on new work after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge complete with all lead and lift as per the direction of Engineer-in-charge.	Sqm	36	139.7	Rupees One Hundred ThirtyNine Paise Seventy Only
129	Wall painting with acrylic emulsion paint (External) of approved brand and manufacture to give an even shade :Two coats on new work after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge complete with all lead and lift as per the direction of Engineer-in-charge.	Sqm	123.18	141.097	Rupees One Hundred FourtyOne Paise Ten Only
130	Providing and fixing 1 mm thick M.S. sheet sliding-shutters, with frame and diagonal braces of 40x40x6 mm angle iron, 3 mm M.S. gusset plates at the junctions and corners, 25 mm dia pulley, 40x40x6 mm angle and T- iron guide at the top and bottom respectively, including applying a priming coat of approved steel primer including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.	Sqm	18	5743.1	Rupees Five Thousand Seven Hundred FourtyThree Paise Ten Only
131	Extra for Groove cutting in brick wall/CC floor to the suitable depth for concealing of Conduit/GI pipe and plastering, finishing upto wall surface complete.upto 50 mm conduit in brick wall	Mtr	755	31.9	Rupees ThirtyOne Paise Ninety Only
132	Supplying PVC flexible conduit pipe .... mm dia fixing on surface over inverted tapered wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300 mm using NF screws and on either end of the pipe terminated completely 20mm	Mtr	250	20.9	Rupees Twenty Paise Ninety Only
133	Supplying PVC flexible conduit pipe .... mm dia fixing on surface over inverted tapered wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300 mm using NF screws and on either end of the pipe terminated completely 25mm	Mtr	230	24.2	Rupees TwentyFour Paise Twenty Only
134	Supplying PVC flexible conduit pipe .... mm dia fixing on surface over inverted tapered wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300 mm using NF screws and on either end of the pipe terminated completely 32mm	Mtr	210	31.9	Rupees ThirtyOne Paise Ninety Only
135	Supplying PVC flexible conduit pipe .... mm dia fixing on surface over inverted tapered wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300 mm using NF screws and on either end of the pipe terminated completely 63mm	Mtr	40	75.9	Rupees SeventyFive Paise Ninety Only

136	Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. Short point upto 3Mtr from tapping point to out let via switch	point	10	313.5	Rupees Three Hundred Thirteen Paise Fifty Only
137	Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch	point	10	433.4	Rupees Four Hundred ThirtyThree Paise Fourty Only
138	Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. Long point above 6Mtr upto 10Mtr from tapping point to out let via switch	point	10	627	Rupees Six Hundred TwentySeven Only
139	Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet.Two outlet in a row, above 3Mtr upto 6Mtr from tapping point to out let via switches	point	5	778.8	Rupees Seven Hundred SeventyEight Paise Eighty Only
140	Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet.Three outlet in a row, above 6Mts upto 10Mtr from tapping point to out let via switches	point	4	1138.5	Rupees One Thousand One Hundred ThirtyEight Paise Fifty Only
141	Supplying and fixing sheet Metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of primer of approved make etc.75 x 75 x 65 mm	Each	15	116.6	Rupees One Hundred Sixteen Paise Sixty Only
142	Supplying and fixing sheet Metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of primer of approved make etc.100 x 75 x 65 mm	Each	20	129.8	Rupees One Hundred TwentyNine Paise Eighty Only

143	Supplying and fixing sheet Metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of primer of approved make etc.180 x 90 x 65 mm	Each	25	177.1	Rupees One Hundred SeventySeven Paise Ten Only
144	Supplying and fixing sheet Metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of primer of approved make etc.200 x 90 x 65 mm	Each	20	196.9	Rupees One Hundred NinetySix Paise Ninety Only
145	Supplying and fixing sheet Metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of primer of approved make etc.135 x 160 x 65 m	Each	10	236.5	Rupees Two Hundred ThirtySix Paise Fifty Only
146	Supplying and fixing sheet Metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of primer of approved make etc.200 x 200 x 65 mm	Each	20	382.8	Rupees Three Hundred EightyTwo Paise Eighty Only
147	Supplying and fixing PVC/metal conduit Deep junction box 19/20 mm deep Junction box	Each	15	53.9	Rupees FiftyThree Paise Ninety Only
148	Supplying and fixing PVC/metal conduit Deep junction box 25 mm deep Junction box	Each	20	61.6	Rupees SixtyOne Paise Sixty Only
149	Supplying and fixing PVC/metal conduit Deep junction box 32 mm deep Junction box	Each	20	67.1	Rupees SixtySeven Paise Ten Only
150	Supplying And Fixing M.S. Rafter Clamp Set made out of M.S.Flat & 14 mm M.S. rod.	No's	150	176	Rupees One Hundred SeventySix Only
151	Supplying And Fixing Metal Fan Box with Round Hook	No's	5	128.7	Rupees One Hundred TwentyEight Paise Seventy Only
152	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS 694:2010 1 mm	Mtr	350	20.9	Rupees Twenty Paise Ninety Only
153	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS 694:2010 1.5 mm	Mtr	300	28.6	Rupees TwentyEight Paise Sixty Only
154	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS 694:2010 2.5 mm2	Mtr	290	46.2	Rupees FourtySix Paise Twenty Only
155	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS 694:2010 4 mm2	Mtr	150	69.3	Rupees SixtyNine Paise Thirty Only
156	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS 694:2010 6 mm2	Mtr	80	101.2	Rupees One Hundred One Paise Twenty Only
157	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.3 Module	Each	25	177.1	Rupees One Hundred SeventySeven Paise Ten Only

158	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.4 Module	Each	20	192.5	Rupees One Hundred NinetyTwo Paise Fifty Only
159	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.6 Module	Each	18	257.4	Rupees Two Hundred FiftySeven Paise Fourty Only
160	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.8 Module	Each	15	312.4	Rupees Three Hundred Twelve Paise Fourty Only
161	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.10-12 Module	Each	10	378.4	Rupees Three Hundred SeventyEight Paise Fourty Only
162	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.16 Module	Each	6	436.7	Rupees Four Hundred ThirtySix Paise Seventy Only
163	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.6A One Way Switch	Each	25	112.2	Rupees One Hundred Twelve Paise Twenty Only
164	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.6A Two Way Switch	Each	20	182.6	Rupees One Hundred EightyTwo Paise Sixty Only
165	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.6A Three Way socket	Each	15	188.1	Rupees One Hundred EightyEight Paise Ten Only
166	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.Stepped Fan Regulator Two Module	Each	10	392.7	Rupees Three Hundred NinetyTwo Paise Seventy Only
167	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.Stepped Fan Regulator Two Module	Each	30	198	Rupees One Hundred NinetyEight Only
168	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.6A Bell Push	Each	10	194.7	Rupees One Hundred NinetyFour Paise Seventy Only
169	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.6/16A Universal Socket	Each	15	259.6	Rupees Two Hundred FiftyNine Paise Sixty Only
170	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.TV/Telephone Socket	Each	5	171.6	Rupees One Hundred SeventyOne Paise Sixty Only
171	Supplying and fixing 32A security and energy saving DP switch with key tag suitable to operate on 230 V, 50Hz AC supply &completely wired on existing box	Each	15	710.6	Rupees Seven Hundred Ten Paise Sixty Only

172	Supplying And fixing/replacing of 6/16/32A electrical accessories on existing switch board.6A Batten Holder	Each	10	81.4	Rupees EightyOne Paise Fourty Only
173	Supplying exhaust fan of 1440 RPM of 300 mm (12") size with bracket blades complete for light duty suitable to operate on 230V 50Hz, AC Supply.	Each	2	1641.2	Rupees One Thousand Six Hundred FourtyOne Paise Twenty Only
174	Fixing all types and all capacities of fluorescent /false ceiling / spot light / CFL / LED fittings indoor on the wall/ ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps.On wall/ ceiling / Rafter / Girders	Each	30	134.2	Rupees One Hundred ThirtyFour Paise Twenty Only
175	Supplying of Ceiling Fan with Capacitor rating As per guideline of BEE 5 star rating and IS:374/19 and also comply with IS: 1709/1984 with latest amendment, Rated volta e 220 V/50 Hz, Rated power upto 35 W +/- 10 %, Rated current As per IS:374/19, Rated power factor 0.9 lagging(min), Rated speed 350 +/- 10% RPM, Rated air delivery 210 +/- 10% Cubic Meter Minimum, Rated service value 6.2 CMM / W, Three Blades of blade leaf 1.05 mm thick Aluminium Alloy sheet, Class B motor insulation, Bearing Two ball bearings, Top 6202, Bottom 6201, as per IS specification, Motor winding. Temp rise Shall not exceed 75 deg C over and ambient of 40 0C by resistance method at 245 V, Insulation resistance Shall not be less than Two Mega Ohms (2M Ohms), Leakage current Should not exceed 210 Micro Amp, Power input, W& current, Air Delivery & Fan Speed as per IS:374/2019 with latest amendment, 2year manufacturer Warranty. (BLDC fans)48" Sweep 5 Star (1200 mm)	Each	5	2944.7	Rupees Two Thousand Nine Hundred FourtyFour Paise Seventy Only
176	Supplying and fixing of slim box fitting, made out of CRCA Sheet metal body with locking type holder completely wired. Excluding Ballast & Fluorescent Tube 1 x 2' Tube light fitting.	Each	10	272.8	Rupees Two Hundred SeventyTwo Paise Eighty Only
177	Supplying and fixing of slim box fitting, made out of CRCA Sheet metal body with locking type holder completely wired. Excluding Ballast & Fluorescent Tube 1 x 4' Tube light fitting.	Each	10	397.1	Rupees Three Hundred NinetySeven Paise Ten Only
178	Supply of round/square recess/surface mounted rolling type LED Down light with ..... W GU 10 LED Lamp Rib Fabricated from diecast aluminium with white powder coated prewired to mains connector & has swivelling unit of aluminium die cast eye ball & LED Lamp position retained by circular wire spring, with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @50/60Hz & Power factor >0.9 along with CE approved. 2years Warranty against any manufacturing defect working under standard electrical condition LED square or round down light 10-12W	Each	15	973.5	Rupees Nine Hundred SeventyThree Paise Fifty Only

179	Supply of round/square recess/surface mounted rolling type LED Down light with ..... W GU 10 LED Lamp Rib Fabricated from diecast aluminium with white powder coated prewired to mains connector & has swivelling unit of aluminium die cast eye ball & LED Lamp position retained by circular wire spring, with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @50/60Hz & Power factor >0.9 along with CE approved. 2years Warranty against any manufacturing defect working under standard electrical condition LED square or round down light 15-18W	Each	20	1456.4	Rupees One Thousand Four Hundred FiftySix Paise Fourty Only
180	Supplying and fixing regular MCCB distribution Panel confirming to IS/IEC 61439 - 3 and IK09 tested as per IS/IEC 62262 with minimum IP43 protection provided with Polyurethane (PUR) gasket, with suitable earthing system, on wall/wood board/flush mounting using required cl A , bolts, nuts, etc., with provision for fixing of suitable type capacity MCCB's as an incomer for 3 phase Double door with necessary bus bar completely wired to use on 440V 3phase 4 wire powder coated painting etc., complete with a provision for fixing of single/three phase suitable capacity MCB's as outgoings confirming to IS/IEC 60898 - 2.12 Way	Each	1	1714.9	Rupees One Thousand Seven Hundred Fourteen Paise Ninety Only
181	Supplying & fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.6-32 A SP	Each	2	456.5	Rupees Four Hundred FiftySix Paise Fifty Only
182	Supplying & fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.6-32 A DP	Each	2	812.9	Rupees Eight Hundred Twelve Paise Ninety Only
183	Supplying & fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.6-32 A TPN	Each	2	1888.7	Rupees One Thousand Eight Hundred EightyEight Paise Seventy Only

184	Supplying and fixing regular MCB distribution boards on wall/ood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase/3 phase/single door with powder coated painting Made out of 14 SWG MS enclosure. II - Double Door 16 Way SP & N	Each	2	3198.8	Rupees Three Thousand One Hundred NinetyEight Paise Eighty Only
185	Supply and Installation / Fixing / Provision of Outdoor type Thermoplastic Modular Panel enclosure with transparent Polycarbonate Lid, shock proof, IP65 (Weather Proof), rust proof, dust proof, water proof, corrosion proof having internally Embedded gasket on both lid and flap suitable to fix Single Phase / Three Phase Energy Meter in suitable base plate and having a provision for Fuse / MCB cut-out with suitable transparent hinged flap opening for operating MCB along with complete tamper proof SEALING facility.300 mm x 450 mm x 214 mm	Each	2	6779.3	Rupees Six Thousand Seven Hundred SeventyNine Paise Thirty Only
186	Supplying and fixing Electronic Trivector Meter (ETV) suitable for operation LT operation and -CT operated meter in polycarbonate body in class 0.5 accuracy as per IS 14697 and completely wired.	Each	2	4829	Rupees Four Thousand Eight Hundred TwentyNine Only
187	Supply and erection of 14 Feet Height Street Light Pole 14 Feet Height Street Light Pole on suitable cement concrete foundation with 2.5 Feet height dia 95 mm cast iron decorative round pedestal as per design weighing not less than 37Kgs, the pedestal shall be fitted with Class 'C' G.I.Pipe 7 Feet height 75 mm outer dia and 7 feet height top piece outer dia of 65 mm fixed by measure of threading/welding/coupling complete. (excluding foundation).	Each	4	22660	Rupees TwentyTwo Thousand Six Hundred Sixty Only

188	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of antiglare clear diffuser with Injection moulded polycarbonate material, delivering superior light output Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>1301m/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source.	Each	4	11066	Rupees Eleven Thousand SixtySix Only
189	Supplying, and fixing of Hot dip Galvanized M.S.Bracket suitable for out door luminaries and mounted on Octagonal pole using necessary bolts, nuts etc., complete.Supplying, and fixing of Hot dip Galvanized M.S.Bracket suitable for out door luminaries and mounted on Octagonal pole using necessary bolts, nuts etc., complete.	Each	4	1870	Rupees One Thousand Eight Hundred Seventy Only
190	Supplying and Fixing of.....mm dia class A GI pipe bracket upto 2 ms long bent at suitable angle and fixing to this bracket street light fitting of all capacities to GI or GI or rail or RCC pole / wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires.Using 25mm dia G.I.Pipe Fixing charges Only	Each	4	1075.8	Rupees One Thousand SeventyFive Paise Eighty Only
191	Supplying .....TR split Air conditioners suitable for operation on A/C supply single phase 50 Hz 230 V with hermetically sealed compressor with air cooled condenser, motor capacitor and start run capacitors, relay and over load protector internal unit, with one indoor and one outdoor unit The condenser unit will be placed outside the room on the terrace to avoid noise including standard length of suitable size copper tubing covered with insulation tube. (High wall chorded/cordless) suitable capacity 3 core sheathed/ PVC copper cable and a battery operated wireless remote unity 1.5 Ton capacity	Each	1	52451.3	Rupees FiftyTwo Thousand Four Hundred FiftyOne Paise Thirty Only
192	Brass Name Board and Letterings	Lumpsum	1	150000.00	Rupees One Lakh Fifty thousand only

SECTION 10: FORMAT OF BANK GUARANTEE FOR SECURITY DEPOSIT

To: ..... *[Name of Employer]*
…… *[address of Employer]*

WHEREAS ……. *[Name and address of Contractor]* (Hereinafter called "the Contractor") has undertaken, in pursuance of Contract No. ……. dated: …… to execute ……..*[name of Contract and brief description of Works]* (hereinafter called "the Contract");

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee;

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Contractor, up to a total of Rs. ……. *[Amount of guarantee]*[13]_Rupees……*[in words]*, and we undertake topay you, upon your first written demand and without cavil or argument, any sum or sums

within the limits of
…… *[amount of guarantee]*[14] as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed there under or of any of the Contract documents which may be made between you and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until 30 days from the date of expiry of the Defects Liability Period.

Signature and seal of the guarantor _____ Name of Bank _
_____ Address _
Date _____